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SUMMARY OF SYNOPTIC METEOROLOGICAL
OBSERVATIONS: JAPANESE AND KOREAN
COASTAL MARINE AREAS. VOLUME 3. AREA 7-
NOBEOKA, AREA 8-YAKU SHIMA, AREA 9-
AMAMI O SHIMA

Naval Weather Service Command
Washington, D. C.

May 1972

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U. S. NAVAL WEATHER SERVICE COMMAND

SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS

JAPANESE AND KOREAN COASTAL MARINE AREAS

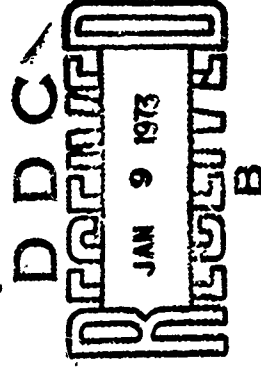
VOLUME 3

AREA 7 - NOBEOKA
AREA 8 - YAKU SHIMA
AREA 9 - AMAMI O SHIMA

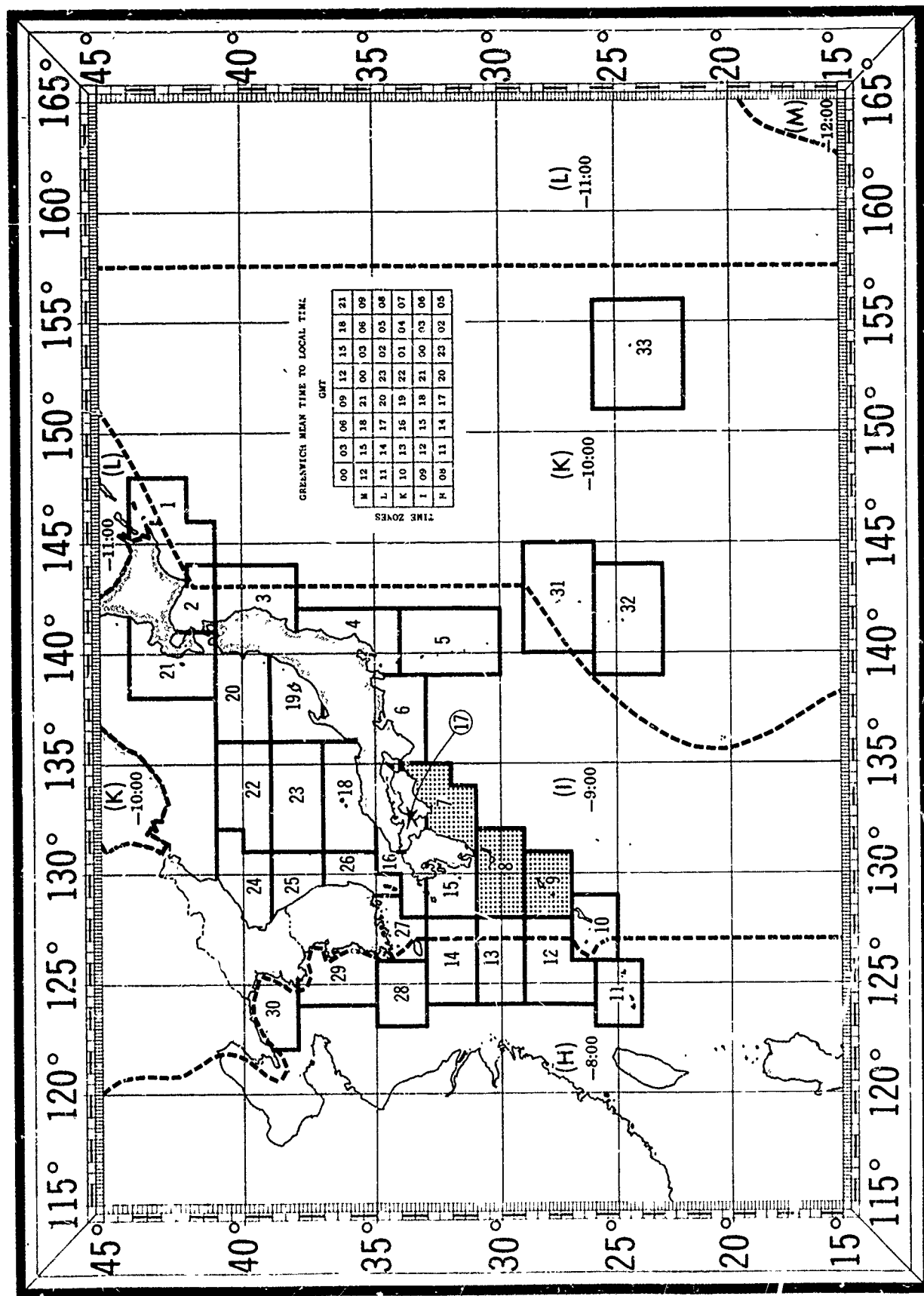
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May 1972



Japanese and Korean Coastal SSMO Areas and Standard Time Zones. Shaded areas are included in this Volume.
A list of the area names and their central locations appears on the inside back cover.

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U. S. NAVAL WEATHER SERVICE COMMAND

SUMMARY OF

SYNOPTIC METEOROLOGICAL OBSERVATIONS

JAPANESE AND KOREAN COASTAL MARINE AREAS

VOLUME 3

AREA 7 - NOBEOKA
AREA 8 - YAKU SHIMA
AREA 9 - AMAMI O SHIMA



SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS (MONTHLY AND ANNUAL)

The data contained in these tables were obtained from tape data Family 11 (TDF-11), Marine Surface observations. TDF-11 was primarily funded by the Naval Weather Service Command and selected by NWSERD Asheville as the most comprehensive collection of marine surface observations from which to develop a series of coastal marine summaries. The source was punched cards of weather observations taken aboard vessels of varying registry. They were recorded on magnetic tape in a common format. Elements not in WMO code were converted to this code where possible. Where this was not possible, the original data were retained within the tape record as supplemental data. A very limited quality control was attempted as the punched cards were converted to taped records and, where possible, missing psychrometric data were computed.

Before the tables are prepared, extreme values of selected parameters are scrutinized so that obvious errors can be excluded. This method is necessarily subjective since the only available record of many observations is the punched card from which the tape records were prepared. Frequently there is no concrete evidence to prove or disprove the validity of questionable data.

Percentage frequencies are computed to hundredths and rounded to tenths. An asterisk (*) indicates percentage frequency > 0 and $< .05$. A value followed by a plus sign indicates greater than or equal to that value (8+ means 8 or greater). NH = low cloud amount (or middle cloud amount when low clouds are not present). The hours given in this publication are GMT.

The geographic position shown on the tables is the central position (centroid) of the observations within the area. This value may fall outside irregular areas.

Also, it should be noted that these data are based upon observations made by ships in passage. Such ships tend to avoid bad weather when possible, thus biasing our data toward good weather samples.

Because the number of observations may vary from one table to the other, no absolute relationship exists between the tables. As an example, air temperature counts for Tables 13 and 17 may not be identical since only observations containing both air temperature and relative humidity were counted in Table 13 and only those with both temperature and air-sea temperature difference were counted in Table 17. No requirement for simultaneous recording of all elements was made.

The primary period of record is that period (extending back in time from the most recent data) during which eighty percent of the total number of observations were recorded. The overall period is the earliest to the latest observed data used in compiling the tables. Tables 18 and 19 were tabulated from selected decks only and the overall period indicates the period of record of this data source. The primary period for these tables is not shown.

THE TABLES

Annual values are computed on the basis of the sum of the monthlies divided by the number of months.

Tables 1 through 19 appear in numerical order for each month, with the annual tables appearing after the tables for December. Tables 20 and 21 appear at the end of the entire series, after the annual summary for Table 19. The series of summaries appear in numerical order by area number.

Table 1 - Percentage Frequency of Weather Occurrence by Wind Direction (8 pts.).

Table 2 - Percentage Frequency of Weather Occurrence by Hour (GMT).

Table 3 - Percentage Frequency of Wind Direction (8 pts.) by Speed and by Hour (GMT). This table includes mean wind speed (kts.) by direction (8 pts.).

Table 3A - Percentage Frequency of Wind Direction (8 pts.) by Speed and by Hour (GMT). This table includes mean wind speed (kts.) by direction.

Table 4 - Percentage Frequency of Wind Speed by Hour (GMT). This table includes mean speed by hour.

Table 5 - Percentage Frequency of Total Cloud Amount (Okta) by Wind Direction (8 pts.). This table includes mean cloud amount by wind direction.

Table 6 - Percentage Frequency of Ceiling Heights (feet, NH > 4/8) and Occurrence of NH < 5/8 by Wind Direction (8 pts.).

Table 7 - Cumulative Percentage Frequency of Occurrence of Ceiling Height (feet, NH > 4/8) and Visibility (Nautical Miles).

Table 7A - Percentage Frequency of Low Cloud Amount (or Middle Cloud Amount if Low Clouds are not present), and Percentage Frequency of Sky Obscured. Amounts are in Oktas.

Table 8 - Percentage Frequency of Wind Direction (8 pts.) vs. Occurrence or Non-Occurrence of Precipitation at Observation Time with Varying Values of Visibility (Nautical Miles).

Table 9 - Percentage Frequency of Wind Direction (8 pts.) vs. Wind Speed (kts.) with Varying Values of Visibility (Nautical Miles).

Table 10 - Percentage Frequency of Ceiling Heights (feet, NH > 4/8) and Occurrence of NH < 5/8 by Hour (GMT).

Table 11 - Percentage Frequency of Visibility (Nautical Miles) by Hour (GMT).

Table 12 - Cumulative Percentage Frequency of Ranges of Visibility (Nautical Miles) and Ceiling Height (feet, NH > 4/8) by Hour (GMT).

Table 13 - Percentage Frequency of Relative Humidity (%) by Air Temperature (° F.).

Table 14 - Percentage Frequency of Wind Direction (8 pts.) by Air Temperature (° F.).

Table 15 - Means, Extremes, and Percentiles of Air Temperature (° F.) by Hour (GMT). Extreme temperatures are the one maximum and one minimum value appearing in the marine data file. The extremes may be unrepresentative due to sampling errors. Extrapolation from the percentile values usually gives a better estimate of expected extreme conditions.

Table 16 - Percentage Frequency of Relative Humidity (%) by Hour (GMT).

Table 17 - Percentage Frequency of Air Temperature (° F.) and the Occurrence of Fog vs. Air-Sea Temperature Difference (° F.).

Air-Sea Temperature Difference is:

Positive when the air is warmer than the sea surface; Negative when the air is cooler than the sea surface. In the table heading, the limits of the temperature ranges appear in a vertical arrangement along the top of the table.

Table 18 - Percentage Frequency of Surface Wind Speed (kts.) and Direction (8 pts.) vs. Sea Height (feet). Source deck 128 for which data are available from mid-1963 was used for these tables. This deck represents the latest and most complete homogeneous source of wave data available. Here, only sea waves generated by local winds in the vicinity of the observer are summarized. This table continues for 1-1/2 pages for each month and 2-1/2 pages for the annual summary.

Table 19 - Percentage Frequency of Wave Height (feet) vs. Wave Period (seconds). In this table when both sea and swell waves are present in an observation, the higher of the two is used. If both are the same height, the longer period is chosen. When only one of the wave groups is observed, either sea or swell, it is used in the summary. Swell waves are those generated by winds distant from the local area where the observation is taken.

Tables 1-19 appear together for each month and in the annual summary. The following two tables appear at the end of the entire series for each area.

Note: In this volume, percentage frequencies at specified hours of the day refer to percentages of observations taken at those hours, rather than percentages of observations taken at all hours. Data at adjacent hours are summarized with data at synoptic hours, i.e., data from 02 and 04 GMT are combined with data from 03 GMT.

Table 20 - Monthly and Annual Percentage Frequencies and Means of Sea Surface Temperature (° F.).

Table 21 - Monthly and Annual Sea Level Pressures (millibars). This table includes means by hour and for all hours, extreme values with the corresponding dates of occurrence and percentile values.

Contents

<u>Area</u>	<u>Name</u>	<u>Page</u>
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8	Yaku Shima	159-316
9	Amami O Shima	317-474

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CONVERSION OF WIND AND WAVE DIRECTION TO 8 POINTS

A reduced bias system was employed in converting wind and wave directions to 8 points. This method attaches weighting values to observations which overlap two different 8 point sectors and treats them as "decimal observation counts." These decimal quantities are rounded to whole numbers for presentation as "observational counts" in the tables. Figures 1-4 below show the 8 point system with other systems superimposed.

Note: Because of rounding, sub-total sums of "observational counts" may not equal grand totals.

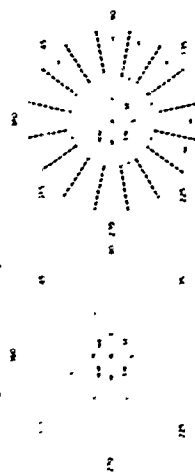


Fig 1 The 8 point direction system superimposed on the 16 point system

Fig 2 The 16 point direction system superimposed on the 8 point system

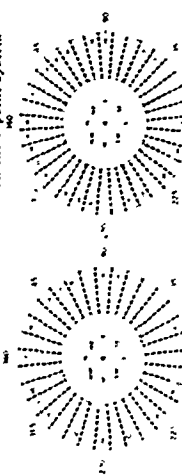


Fig 3 The 32 point direction system superimposed on the 8 point system

Fig 4 The 36 point direction system superimposed on the 8 point system

DIRECTION AND WEATHER CODES

VISIBILITY (VV) INTERPRETATION (NAUTICAL MILES)		PRESENT WEATHER (1960 WMO CODE 4677)		
CODE	INTERPRETATION	CODE	INTERPRETATION	CODE
90-93	VV<1/2	58-59 60-65 91-94 (68-69, 95, 97 IF TEMP > 40°F)	RAIN	13-17 95-99 THUNDER LIGHTNING THUNDERSTORM
94	1/2 ≤ VV < 1	80-82, (83-84 IF TEMP > 40°F)	RAIN SHOWERS	10-12 40-49 FOG (WITHOUT PRECIPITATION)
95	1 ≤ VV < 2	50-55, 58-59	DRIZZLE	04-05 SMOKE HAZE
96	2 ≤ VV < 5	56-57 66-67	FREEZING PRECIPITATION	06-08 30-39 DUST BLOWING DUST BLOWING SNOW
97	5 ≤ VV < 10	70-75, 85-86, (88-69, 83-84, 95, 97 IF TEMP ≤ 40°F)	SNOW	00-03 14-16 18-29 NO SIGNIFICANT WEATHER AT OB TIME
98	10 ≤ VV < 25	76-79	OTHER FROZEN PRECIPITATION	00-49 NO PRECIPITATION AT OB TIME
99	≥ 25	87-90 93-94 96, 99	HAIL	50-99 PRECIPITATION AT OB TIME

NOTE: < means less than;
> means greater than;
≤ means less than or
equal to; ≥ means
greater than or equal
to.

NOTE: The following WMO codes were counted in two weather categories: 58-59 (rain and drizzle); 68-69 (rain and snow); 93-94 (rain and hail); 96 and 99 (hail and thunder/lightning/thunderstorm); 95 and 97 (snow and thunder/lightning/thunderstorm); or (rain and thunder/lightning/thunderstorm).

WAVE HEIGHT (from source decks 128 and 116)

RECORDED CODE (HALF METERS)	RANGE (METERS)	AS RECORDED IN TABULATION (FEET)	RECORDED CODE (HALF METERS)	RANGE (METERS)	AS RECORDED IN TABULATION (FEET)	RECORDED CODE (HALF METERS)	RANGE (METERS)	AS RECORDED IN TABULATION (FEET)
00	≤.25}	<1	12	>5.75 to 6.25}	20-22	30	>14.75 to 15.25}	
01	>.25 to .75}	1-2	13	>6.25 to 6.75}		31	>15.25 to 15.75}	
02	>.75 to 1.25}	3-4	14	>6.75 to 7.25}	23-25	32	>15.75 to 16.25}	49-60
03	>1.25 to 1.75}	5-6	15	>7.25 to 7.75}		33	>16.25 to 16.75}	
04	>1.75 to 2.25}	7	16	>7.75 to 8.25}		34	>16.75 to 17.25}	
05	>2.25 to 2.75}	8-9	17	>8.25 to 8.75}	26-32	35	>17.25 to 17.75}	
06	>2.75 to 3.25}	10-11	18	>8.75 to 9.25}		36	>17.75 to 18.25}	
07	>3.25 to 3.75}	12	19	>9.25 to 9.75}		37	>18.25 to 18.75}	61-70
08	>3.75 to 4.25}	13-16	20	>9.75 to 10.25}		38	>18.75 to 19.25}	
09	>4.25 to 4.75}	17-19	21	>10.25 to 10.75}	33-40	39	>19.25 to 19.75}	
			22	>10.75 to 11.25}		40	>19.75 to 20.25}	
			23	>11.25 to 11.75}		41	>20.25 to 20.75}	
			24	>11.75 to 12.25}		42	>20.75 to 21.25}	
			25	>12.25 to 12.75}		43	>21.25 to 21.75}	71-86
			26	>12.75 to 13.25}	41-48	44	>21.75 to 22.25}	
			27	>13.25 to 13.75}		45	>22.25 to 22.75}	
			28	>13.75 to 14.25}		46	>22.75 to 23.25}	
			29	>14.25 to 14.75}		47	>23.25 to 23.75}	
						48	>23.75 to 24.25}	
						49	>24.25 to 24.75}	
						50	>24.75 to 25.25}	
						51	>25.25 to 25.75}	
						52	>25.75 to 26.25}	
10	>4.75 to 5.25}					53-99	>26.25 to 49.75}	≥87
11	>5.25 to 5.75}							

Indeterminate=INDET

JANUARY

PERIOD: (PRIMARY) 1933-12-70
(OVER-ALL) 1862-1970

AREA 0007 NOBESKA
32.2N 133.1E

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAI.	RAIN SHWR	DRZL	PRECIPITATION TYPE				HAIL	PCT FREQ PCPN AT OBS	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS
				FRZG	SNOW	OTHER	FRZN					PCPN	FOG	SMOKE	DUST	
N	1.3	.1	.3	.0	.0	*	.0	.0	1.7		.1	.2	.0	.0	.0	24.0
NE	1.8	.1	.4	.0	.0	.0	.0	.0	2.2		.2	.2	.1	.0	.0	10.4
E	.6	.1	.1	.0	.0	.0	.0	.0	.8		.1	.1	*	.0	.0	3.1
SE	.3	.0	*	.0	.0	.0	.0	.0	.3		.0	*	.0	.0	.0	1.2
S	.3	.0	.2	.0	.0	.0	.0	.0	.5		.0	.1	.0	.0	.0	1.1
SW	.1	*	.1	.0	.0	.0	.0	.0	.2		*	*	.0	.0	.0	2.0
W	.3	.1	.1	.0	.0	.1	.0	.1	.5		.0	*	.0	.0	.0	11.7
NW	.5	.2	.1	.0	.0	.3	.0	.1	1.2		.0	.1	*	.0	.0	37.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.0	.0	.1	.0	.0	.0	.0	.0	.1		.0	*	.1	.0	.0	.7
TOT OBS	184	19	51	0	13	0	0	.8	.1	267	17	28	6	.1	0	3220
TOT PCT	5.2	.5	1.4	.0	.4	.0	.0	.2	7.6		.5	.8	.2	.0	.0	91.4

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE				HAIL	PCT FREQ PCPN AT OBS	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS
				FRZG	SNOW	OTHER	FRZN					PCPN	FOG	SMOKE	DUST	
0003	5.4	.7	1.1	.0	.2	.0	.0	.4	7.8		.8	.3	.0	.0	.0	91.7
0609	6.2	.5	2.2	.0	.2	.0	.0	.2	8.4		.3	.9	.1	.0	.0	90.6
12015	3.5	.7	1.0	.0	.5	.0	.0	.1	5.8		.1	1.3	.3	.0	.0	92.5
18021	5.7	.4	1.5	.0	.5	.0	.0	.1	8.2	267	.7	.6	.2	.0	.0	90.9
TOT	184	19	51	0	13	0	0	.8	7.5		17	28	6	.2	0	3246
PCT	5.2	.5	1.4	.0	.4	.0	.0	.2			.5	.8	.2	.0	.0	91.4

PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1862-1970

JANUARY

AREA 0007 NOBEOKA
32.2N 133.1E

TABLE 2

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	00	03	06	09	12					15	18	21					
N	.7	10.9	11.5	2.9	.2	.0	26.7	12.8	12.8	24.9	30.7	19.8	24.9	26.4	25.5	23.9	28.5					
NE	.7	6.4	5.1	1.1	*	.0	13.3	11.6	11.6	14.2	14.1	14.2	11.8	12.6	12.8	13.2	14.5					
E	.4	1.9	1.3	.2	*	.0	3.9	10.4	10.4	3.7	2.4	3.7	5.1	2.8	5.5	5.0	3.1					
SE	.3	.7	.5	.1	*	.0	1.6	10.4	10.4	1.3	.9	2.6	1.5	1.7	1.8	2.0	1.6					
S	.1	.9	.6	.2	.0	.0	1.8	11.5	11.5	3.4	1.3	2.4	.9	3.0	2.0	1.0	1.3					
SW	.1	1.0	1.0	.2	*	.0	2.4	12.6	12.6	3.7	1.5	5.2	1.6	3.6	1.4	2.9	1.8					
W	.5	3.6	4.9	2.4	.4	.0	11.7	15.7	15.7	12.4	10.5	16.3	13.4	10.7	10.0	14.3	9.6					
NW	.7	11.0	17.3	7.9	1.0	*	38.0	15.7	15.7	36.6	38.3	33.9	40.0	37.1	39.2	35.7	39.2					
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0					
CALM	1.2	1545	1786	632	72	1	4234	.0	.0	.8	.4	2.0	.9	2.2	1.8	2.1	.3					
TOT OBS	198	1545	1786	632	72	1	4234	13.8	13.8	393	751	401	580	365	767	338	641					
TOT PCT	4.7	36.5	42.2	14.9	1.7	*	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0					

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-6	7-16	17-27	28-40	41+				00 03	06 09	12 15	18 21			
N	4.5	14.3	6.7	.7	*	26.2	12.8	12.8	28.7	22.0	25.8	26.9	26.9		
NE	3.0	7.2	2.8	.2	.0	13.3	11.6	11.6	13.7	12.8	12.7	14.0	14.0		
E	1.3	2.0	.6	.1	.0	3.9	10.4	10.4	2.9	4.5	4.6	3.7	3.7		
SE	.7	.6	.3	.1	.0	1.6	10.4	10.4	1.1	1.9	1.7	1.8	1.8		
S	.5	.8	.4	*	.0	1.8	11.5	11.5	2.0	1.5	2.3	1.2	1.2		
SW	.5	1.2	.6	.1	.0	2.4	12.6	12.6	2.2	3.0	2.1	2.2	2.2		
W	1.4	5.1	3.8	1.2	.1	11.7	15.7	15.7	11.1	14.6	10.2	11.3	11.3		
NW	3.9	17.1	13.9	2.9	.2	38.0	15.7	15.7	37.7	37.5	38.5	38.0	38.0		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	1.2	2040	1239	224	14	4234	13.8	13.8	.5	1.3	1.9	.9	.9		
TOT OBS	717	7040	1239	224	14	4234	13.8	13.8	1144	981	1130	979	979		
TOT PCT	16.9	48.2	29.3	5.3	.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		

JANUARY

PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1862-1970

AREA 0007 NOBEOKA
32.2N 133.1E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	PCT		TOTAL OBS
				11-21	22-33	34-47			MEAN	FREQ	
0003	.5	3.5	36.1	41.7	16.0	2.1		.1	14.2	100.0	1144
0609	1.3	4.2	35.4	41.2	16.2	1.7		.0	14.0	100.0	981
1215	1.9	3.0	37.4	45.8	15.1	1.7		.0	13.6	100.0	1130
1821	.3	3.4	37.0	45.4	12.2	1.2		.0	13.3	100.0	979
TOT	50	148	1545	1786	632	72		1	13.8		4234
PCT	1.2	3.5	36.5	42.2	14.9	1.7		1	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-10	OBS	TOTAL OBS	MEAN	
							CLOUD COVER	
N	4.8	3.4	9.3	5.2			5.1	
NE	1.4	.8	3.8	5.0			6.2	
E	.5	.7	.9	1.7			5.8	
SE	.2	.4	.5	1.3			6.4	
S	.3	.5	.6	1.3			6.1	
SW	.4	1.1	1.6	.8			5.2	
W	3.4	3.3	8.0	2.3			4.7	
NW	8.3	7.1	14.9	5.2			4.7	
VAR	.0	.0	.0	.0			.0	
CALM	.4	.2	.2	.3			3.8	
TOT OBS	189	168	382	222		961	5.1	
TOT PCT	19.7	17.5	39.8	23.1		100.0		

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH > 4/8)
AND OCCURRENCE OF NH < 5/8 BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	3 L OBS	TOTAL OBS	CLOUD COVER	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH ANY	<5/8 TOTAL
N	4.8	3.4	9.3	5.2		5.1	.0	.2	.4	1.7	3.8	3.8	1.1	.2	.0	.2	11.4	
NE	1.4	.8	3.8	5.0		6.2	.0	.1	.1	1.2	2.7	1.3	1.5	.1	.1	.1	3.8	
E	.5	.7	.9	1.7		5.8	.0	.0	.0	.6	.7	.4	.1	.0	.0	.0	1.7	
SE	.2	.4	.5	1.3		6.4	.0	.0	.0	.2	.7	.5	.2	.0	.0	.1	.7	
S	.3	.5	.6	1.3		6.1	.0	.0	.0	.1	.7	.3	.2	.0	.0	.0	1.4	
SW	.4	1.1	1.6	.8		5.2	.0	.0	*	.4	.6	.8	.0	.0	.0	.0	2.0	
W	3.4	3.3	8.0	2.3		4.7	.0	.1	.2	.7	2.6	3.6	1.0	.0	.0	.0	9.0	
NW	8.3	7.1	14.9	5.2		4.7	.1	*	.4	2.2	4.6	8.1	1.4	.2	.1	.0	18.4	
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.4	.2	.2	.3		3.8	.0	.0	.0	.0	.1	.1	.0	.0	.0	.1	.8	
TOT OBS	189	168	382	222	961	5.1	1	4	10	68	158	181	52	.0	.2	2	5	961
TOT PCT	19.7	17.5	39.8	23.1	100.0		1	.4	1.0	7.1	16.4	18.8	5.4	.6	.2	.5	49.3	100.0

PERIOD: (PRIMARY) 1933-1970
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TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.5	.7	.7	.7	.7	.7	.7	.7
= OR >5000	1.0	1.2	1.3	1.3	1.3	1.3	1.3	1.3
= OR >3500	5.2	6.6	6.7	6.7	6.7	6.7	6.7	6.7
= OR >2000	19.3	25.3	25.5	25.5	25.5	25.5	25.5	25.5
= OR >1000	30.6	41.0	41.6	41.6	41.7	41.7	41.8	41.8
= OR >600	34.8	47.5	48.7	48.7	48.8	48.8	48.9	48.9
= OR >300	35.4	48.4	49.6	49.7	49.8	49.8	49.9	49.9
= OR >150	35.5	48.7	50.1	50.2	50.3	50.3	50.4	50.4
= OR >0	35.6	48.8	50.2	50.3	50.4	50.4	50.5	50.5
TOTAL	343	470	483	484	485	485	486	486

TOTAL NUMBER OF OBS: 963

PCT FREQ NH <5/8: 49.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
6.7	9.1	12.4	10.6	10.6	10.6	11.0	15.4	9.7	14.5	.0	1016

PERIOD: (PRIMARY) 1933-1970
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	.1	.1	*	.0	.0	.0	.0	.1	.0	.0	.3	
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
TOT %	.1	.1	*	.0	.0	.0	.0	.1	.0	.0	.4	
PCP	*	*	*	.0	.0	.0	.0	.0	.0	.0	.1	
NO PCP	*	.0	.0	.0	*	*	*	*	.0	.0	.1	
TOT %	*	*	*	.0	*	*	*	*	.0	.0	.2	
PCP	.1	.1	*	*	*	.0	.1	.1	.0	.0	.5	
NO PCP	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	.1	
TOT %	.2	.1	.1	*	*	.0	.1	.1	.0	.0	.6	
PCP	.4	.3	.2	.1	.1	*	*	.1	.0	*	1.3	
NO PCP	.2	.1	*	*	.0	*	*	*	.0	*	.5	
TOT %	.6	.4	.2	.2	.1	*	.1	.1	.0	.1	1.8	
PCP	.6	1.0	.3	.1	.3	.2	.4	.6	.0	.0	3.5	
NO PCP	4.3	2.4	.9	.3	.4	.5	2.0	6.8	.0	.1	17.8	
TOT %	5.0	3.4	1.2	.4	.7	.7	2.3	7.3	.0	.1	21.2	
PCP	.4	.6	.2	.1	*	*	.1	.4	.0	*	2.0	
NO PCP	19.6	8.1	2.2	.9	.8	1.6	9.7	30.4	.0	.6	73.8	
TOT %	20.0	8.8	2.5	1.0	.8	1.6	9.8	30.8	.0	.6	75.8	
TOT OBS	25.9	12.9	4.0	1.6	1.7	2.3	12.3	38.5	.0	.8	100.0	3525

PERIOD: (PRIMARY) 1933-1970
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TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
	4-10	.1	*	.0	.0	.0	*	*	*	.0	.0	.2	
	11-21	.1	.1	.0	.0	.0	.0	*	.1	.0	.0	.3	
	22+	.1	*	.0	.0	.0	*	.1	.2	.0	.0	.7	
	TOT %	.2	.2	*	.0	.0	*	.1	.1	.0	.0	.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	*	*	*	.0	.0	*	*	*	.0	.0	.1	
	11-21	.1	*	.0	.0	.0	*	*	*	.0	.0	.1	
	22+	.0	.1	.0	.0	*	*	*	*	.0	.0	.1	
	TOT %	.1	.1	*	.0	*	*	.1	.1	.0	.0	.3	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.1	.1	.0	.0	*	.1	.1	.0	.0	.4	
	11-21	.1	.1	*	*	.0	.0	.1	.1	.0	.0	.5	
	22+	.1	.1	*	*	.0	.0	*	.1	.0	.0	.3	
	TOT %	.3	.3	.1	*	.1	*	.1	.3	.0	.0	1.2	
2<5	0-3	*	*	*	.1	.0	*	*	*	.0	.1	.3	
	4-10	.5	.4	.2	.1	.1	*	.1	.4	.0	.0	1.7	
	11-21	.6	.3	.1	.1	.1	.1	.1	.3	.0	.0	1.6	
	22+	.1	.1	*	*	*	.0	*	.1	.0	.0	.4	
	TOT %	1.3	.8	.3	.2	.1	.1	.2	.8	.0	.1	4.0	
5<10	0-3	.2	.1	.1	*	*	*	.1	.2	.0	.1	.9	
	4-10	2.0	1.5	.5	.2	.4	.3	.5	1.5	.0	.0	6.9	
	11-21	1.9	1.4	.5	.1	.2	.3	.9	3.2	.0	.0	8.4	
	22+	.5	.2	.1	*	.1	.1	.6	2.0	.0	.0	3.7	
	TOT %	4.6	3.2	1.1	.4	.7	.7	2.1	6.8	.0	.1	19.9	
10+	0-3	.5	.5	.3	.2	.1	*	.4	.5	.0	.9	3.4	
	4-10	7.9	4.4	1.2	.4	.4	.7	2.8	9.0	.0	.0	26.8	
	11-21	8.9	3.1	.7	.3	.4	.6	4.0	13.9	.0	.0	31.9	
	22+	2.1	.6	.1	.1	*	.2	2.1	6.7	.0	.0	11.9	
	TOT %	19.4	8.6	2.4	1.0	.8	1.6	9.4	30.0	.0	.9	73.9	
TOT OBS		3874											
TOT PCT		25.9	13.2	4.0	1.6	1.8	2.4	12.0	38.2	.0	1.0	100.0	

PERIOD: (PRIMARY) 1933-1970
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000 1.9	150 2.9	300 5.9	600 9.9	1000 19.9	2000 34.9	3500 49.9	5000 64.9	6500 79.9	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	.0	.4	1.5	6.0	21.5	20.4	6.5	1.1	.7	.0	60.0	40.0	275
06009	.4	.4	1.4	7.6	16.2	18.0	5.8	.4	.0	.7	51.6	48.4	277
12015	.0	.9	.4	4.5	11.7	15.7	3.6	.0	.0	.4	37.2	62.8	223
18021	.0	.0	.5	7.0	13.0	18.1	4.7	.9	.0	.9	45.1	54.9	215
TOT	1	4	10	68	158	182	52	6	2	5	488	502	990
PCT	.1	.4	1.0	6.9	16.0	18.4	5.3	.6	.2	.5	49.3	50.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	< 1/2	1/2 < 1	1 < 2	2 < 5	5 < 10	10+	TOTAL OBS
00003	.0	.4	.4	1.1	16.2	82.0	272
06009	.0	.0	.0	1.5	17.2	81.3	273
12015	.0	.0	.0	1.9	24.3	73.8	210
18021	.5	.0	.0	3.4	27.9	68.3	208
TOT	1	1	1	18	200	742	963
PCT	.1	.1	.1	1.9	20.8	77.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH > 4/8) BY HOUR

HOUR (GMT)	< 150 < 50YD	< 600 < 1	< 1000 < 5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	.0	2.2	10.7	50.0	39.3	272
06009	.4	2.2	11.0	41.8	47.3	273
12015	.0	1.4	7.1	32.9	60.0	210
18021	.0	1.0	10.6	36.5	52.9	208
TOT	1	17	96	395	472	963
PCT	.1	1.8	10.0	41.0	49.0	100.0

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PERIOD: (PRIMARY) 1933-1970
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TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100				
70/74	.1	.0	.0	.0	.1	.0	.3	.0			5	.6
65/69	.0	.0	.0	.3	1.2	1.2	1.4	.6			42	4.8
60/64	.1	.0	.1	1.7	4.0	2.6	2.6	1.9			113	13.0
55/59	.0	.1	1.7	5.6	6.5	5.4	3.4	1.6			214	24.3
50/54	.1	.1	1.9	6.8	10.9	7.0	3.7	1.1			280	31.7
45/49	.0	.2	1.6	4.0	7.0	3.2	1.6	.8			162	18.4
40/44	.0	.1	1.1	2.2	1.7	1.1	.6	.1			61	6.9
35/39	.0	.0	.1	.1	.0	.0	.0	.1			3	.3
TOTAL	5	58	58	182	277	162	120	55			882	100.0
PCT	.3	.6	6.6	20.6	31.4	20.6	13.6	6.2				

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP											VAR	CALM
N	NE	E	SE	S	SW	W	NW					
.1	.1	.0	.0	.0	.3	.0	.0				.0	.0
.6	.3	.1	.1	.8	.7	1.5	.7				.0	.1
1.9	1.2	1.5	1.2	1.1	1.0	2.3	2.3				.0	.5
6.3	4.5	1.5	.5	.3	.9	1.4	6.5				.0	.3
8.8	4.6	.8	.1	.2	.4	4.1	12.5				.0	.3
5.3	1.7	.2	.1	.3	.5	2.7	7.7				.0	.0
1.8	*	.1	.1	.0	.1	.5	4.3				.0	.0
.0	.0	.0	.0	.0	.0	.2	.1				.0	.0
24.8	12.5	4.2	2.0	2.6	4.0	14.7	34.0				.0	1.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR											TOTAL OBS
HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN			
00003	72	68	64	52	41	34	27	52.1			1119
06009	73	68	64	52	41	37	33	52.0			976
12015	74	66	62	50	39	34	25	50.4			1124
18021	68	66	63	50	37	34	27	49.7			973
TOT	74	66	63	51	39	34	25	51.1			4192

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR											TOTAL OBS
HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN				
00003	.0	24.3	34.3	21.0	12.0	8.2	69				233
06009	.8	31.7	29.6	16.5	14.4	7.0	67				243
12015	.5	27.3	33.3	22.2	13.4	3.2	67				216
18021	.0	28.2	27.2	23.1	14.9	6.7	68				195
TOT	3	248	277	182	121	56	67				1087

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TABLE 17
PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	25	29	33	37	41	45	49	53	57	61	65	69	73	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	*	.1
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	3	.0	.1
7/8	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	.0	.0	.0	7	.0	.2
6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	.1
5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	.0	.1
4	.0	.0	.0	.0	.0	.0	.1	.1	.0	.1	.1	.0	*	15	.0	.4
3	.0	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	5	.0	.1
2	.0	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	17	.0	.5
1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	8	.0	.2
0	.0	.0	.0	.1	.0	.1	.2	.1	.1	.0	.2	.1	*	51	*	1.5
-1	.0	.0	.0	.0	.0	.1	.1	.1	.1	.1	.1	.0	.0	17	*	.5
-2	.0	.0	.0	.0	.1	.2	.3	.2	.3	1.1	.3	*	.0	87	.1	2.5
-3	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.3	*	.0	20	.0	.5
-4	.0	.0	.0	.0	.2	.3	.4	.6	.7	1.3	.4	*	.0	135	.1	3.8
-5	.0	.0	.0	.1	.1	.4	.8	.9	1.5	1.1	.3	.0	.0	181	.1	5.3
-6	.0	.0	.0	.2	.2	.8	1.0	2.2	2.6	1.3	.1	.0	.0	267	.1	8.4
-7/-8	.0	.0	.0	.2	.2	.1	.8	.2	2.2	.6	.0	.0	.0	355	.1	10.4
-9/-10	.0	.0	.1	.1	.3	1.6	1.7	3.8	2.2	.0	.0	.0	.0	695	.1	20.5
-11/-13	.0	.1	.1	.4	.8	4.5	5.8	5.7	2.0	.1	.0	.0	.0	721	.0	21.3
-14/-16	.0	.1	.1	1.4	2.1	8.1	4.9	.0	.6	.0	.0	.0	.0	314	.0	9.3
-17/-19	.0	.1	.2	1.7	1.7	3.3	2.4	.8	.1	.0	.0	.0	.0	285	.0	8.4
-20/-22	.1	.1	.4	1.6	2.2	3.0	1.1	.1	.0	.0	.0	.0	.0	82	.0	2.4
-23/-25	.0	.0	.1	.8	.7	.8	.0	.0	.0	.0	.0	.0	.0	40	.0	1.2
-26/-30	.0	.0	.0	.3	.8	.1	.0	.0	.0	.0	.0	.0	.0	3	.0	.1
<-30	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	.1
TOTAL	5	12	40	201	309	798	670	649	363	244	80	8	3	3382	24	3358
PCT	.1	.4	1.2	5.9	9.1	23.6	19.8	19.2	10.7	7.2	2.4	.2	.1	100.0	.7	99.3

TABLE 18
PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.8	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0
1-2	.6	2.6	1.7	.0	.0	.0	4.9	.0	3.1	1.3	.0	.0	.0	4.4
3-4	.0	2.6	5.1	.7	.0	.0	8.4	.0	.5	2.9	.3	.0	.0	3.7
5-6	.0	.3	4.2	.5	.0	.0	4.9	.0	.6	1.4	.5	.0	.0	2.4
7	.0	.0	.6	.6	.0	.0	1.2	.0	.0	1.0	.3	.0	.0	1.3
8-9	.0	.0	.0	.2	.0	.0	.8	.0	.0	.0	.6	.0	.0	.4
10-11	.0	.0	.3	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	6.3	11.8	3.2	.2	.0	22.3	.0	4.2	6.6	1.7	.0	.0	12.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
1-2	.3	.5	.3	.0	.0	.0	1.1	.0	.6	.0	.0	.0	.0	.6
3-4	.0	.5	1.1	.0	.0	.0	1.7	.0	.0	1.2	.0	.0	.0	1.2
5-6	.0	.0	.2	.2	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.3	.0	.0	.3
8-9	.0	.3	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.6	1.9	.2	.0	.0	4.0	.0	.6	1.2	.3	.0	.0	2.1

PERIOD: (OVER-ALL) 1963-1970 JANUARY AREA 0007 NOBUCUKA 32.2N 133.1E

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.8	.3	.5	.0	.0	1.6	.0	1.3	1.5	.8	.0	.0	3.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.3	7.4	2.9	1.1	.0	13.7	.0	8.4	19.7	3.8	2.3	.0	39.8

PERIOD: (OVER-ALL) 1963-1970

JANUARY

AREA 0007, NORFOLK
32.2N 133.1E

TABLE 1B (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)							TOT OBS
	0-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	1.2	2.1	.0	.0	.0	.0	3.3	
1-2	.9	11.4	7.2	.0	.0	.0	20.1	
3-4	.0	9.3	24.0	2.1	.0	.0	35.4	
5-6	.0	2.4	11.4	3.3	.3	.0	17.4	
7	.0	.3	5.1	4.8	.3	.0	10.5	
8-9	.0	.3	1.2	4.2	1.2	.0	6.9	
10-11	.0	.0	.3	2.4	.6	.0	3.3	
12	.0	.0	.0	.9	.0	.0	1.5	
13-16	.0	.0	.3	.3	.9	.0	1.3	
17-19	.0	.0	.0	.0	.3	.0	.3	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.3	.0	.0	.3	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.1	23.8	30.2	16.3	3.6	.0	100.0	
							333	

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.7	14.2	19.9	9.7	3.7	2.1	.8	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	397	4
6-7	.1	.8	5.9	8.4	5.5	1.8	1.4	.5	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	191	6
8-9	.0	.9	.7	2.8	2.0	1.8	1.3	.8	.4	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	83	7
10-11	.0	.1	.3	.5	.4	.9	.4	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	27	8
12-13	.0	.0	.4	.0	.0	.1	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	8
>13	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	2	10
INDET	2.0	2.2	1.0	.9	.4	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	94	3
TOTAL	29	139	215	170	91	56	32	18	6	1	0	3	0	0	0	0	0	0	0	762	3
Σ	3.8	18.2	28.2	22.3	11.9	7.3	4.2	2.4	1.0	.1	.0	.4	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1863-1970

FEBRUARY

AREA 0007 NOBODKA
32.2N 133.1E

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND D.P	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT FRQ PCPN AT OB TIME	TOTAL PCPN OBS	THOR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				FRZG PCPN	SNOW PCPN	OTHER PCPN					FOO	SHWR	DUST	BLWG	SNOW	
N	1.5	.4	.5	.0	.0	.0	.0	2.4		.1	.2	.1	.0	.0	.0	22.0
NE	2.3	.3	.5	.0	.0	.0	.0	3.0		.0	.2	.1	.0	.0	.0	12.6
E	1.7	.1	.7	.0	.0	.0	.0	1.9		.0	.0	.0	.0	.0	.0	4.3
SE	1.2	.1	.3	.0	.0	.0	.0	1.4		.0	.0	.0	.0	.0	.0	2.2
S	.6	.0	.2	.0	.0	.0	.0	.9		.0	.1	.0	.0	.0	.0	2.2
SW	.4	.1	.1	.0	.0	.0	.0	.5		.0	.0	.0	.0	.0	.0	3.2
W	.1	.1	.1	.0	.0	.0	.0	.3		.0	.1	.0	.0	.0	.0	10.8
NW	.6	.1	.1	.0	.0	.0	.0	.3		.0	.1	.2	.0	.0	.0	29.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.9
TOT OBS	309	38	94	0	1	0	2	11.2	416	6	26	17	1	3242	1	3706
TOT PCT	8.3	1.0	2.5	.0	.0	.0	.1			.2	.7	.5	.0	.0	.0	87.5

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT FRQ PCPN AT OB TIME	TOTAL PCPN OBS	THOR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				FRZG PCPN	SNOW PCPN	OTHER PCPN					FOO	SHWR	DUST	BLWG	SNOW	
0000	7.9	1.3	1.7	.0	.0	.0	.2	10.5		.1	.4	.7	.0	.0	.0	88.2
0609	8.0	.7	2.0	.0	.0	.0	.0	10.4		.1	.7	.3	.1	.0	.0	88.3
1215	8.6	1.4	3.3	.0	.1	.0	.0	12.4		.3	1.0	.5	.0	.0	.0	85.8
1821	9.0	1.0	3.1	.0	.0	.0	.0	11.9	423	.1	.7	.2	.0	.0	.0	87.2
TOT	313	41	94	0	1	0	2	11.3		6	26	17	1	3268	1	3739
PCT	8.4	1.1	2.5	.0	.0	.0	.1			.2	.7	.5	.0	.0	.0	87.4

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PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1863-1970

TABLE 3

AREA 0007 HONOLULU
32.2N 155.1E

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.8	8.6	11.5	3.7	.4	*	25.1	14.1	28.9	24.3	24.3	24.3	21.9	22.1	23.9	24.1	28.4
NE	1.1	6.7	6.5	2.2	.2	.0	16.7	12.8	16.4	17.7	17.7	16.7	17.7	17.1	16.1	16.9	14.9
E	.4	3.1	2.0	.8	.3	*	6.6	13.4	5.7	6.9	6.9	1.9	6.3	6.5	6.3	6.0	6.1
SE	.3	1.5	1.2	.5	.1	.0	3.6	12.7	3.7	2.7	2.7	1.9	3.9	3.0	4.3	3.4	3.7
S	.3	1.0	1.0	.7	.1	*	3.1	14.5	3.1	1.8	1.8	.5	3.2	4.7	3.0	4.0	2.4
SW	.4	1.5	1.4	.6	.1	.0	4.0	12.7	4.0	3.0	3.0	6.1	4.0	5.6	3.8	4.8	2.3
W	.4	4.0	4.7	1.7	.2	.0	11.0	14.0	12.3	11.7	13.2	13.2	10.5	13.1	9.2	11.3	6.3
NW	.8	9.2	13.7	4.7	.3	.0	28.7	14.5	24.3	31.2	26.4	26.4	28.9	24.4	30.2	26.2	33.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.2	1854	1854	656	71	3	4419	13.7	1.0	7.7	1.7	1.7	1.5	1.5	1.3	3.0	.8
TOT OBS	254	42.0	42.0	14.8	1.6	.1	100.0	100.0	407	768	408	592	405	405	793	401	643
TOT PCT	9.7	35.8	35.8	14.8	1.6	.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)								
	0-6	7-16	17-27	28-40	41+				00	03	06	09	12	15	18	21	
N	3.6	12.6	7.4	1.4	.1	25.1	14.1	25.9	25.9	25.9	23.0	23.0	24.6	24.6	26.8	26.8	
NE	3.4	8.3	4.2	.7	*	16.7	12.8	17.3	17.3	17.3	17.3	17.3	16.4	16.4	15.7	15.7	
E	1.6	3.2	1.1	.6	.1	6.6	13.4	6.5	6.5	6.5	7.4	7.4	6.4	6.4	6.1	6.1	
SE	1.0	1.5	.8	.2	.1	3.6	12.7	3.0	3.0	3.0	3.9	3.9	3.9	3.9	3.6	3.6	
S	1.0	1.1	.8	.3	*	3.1	14.5	2.3	2.3	2.3	3.8	3.8	3.8	3.8	3.0	3.0	
SW	1.1	1.6	1.0	.2	.0	4.0	12.7	3.6	3.6	3.6	4.9	4.9	4.4	4.4	3.3	3.3	
W	1.8	5.2	3.3	.7	*	11.0	14.0	11.9	11.9	11.9	11.2	11.2	11.2	11.2	9.5	9.5	
NW	3.7	13.8	9.6	1.6	.1	28.7	14.5	28.8	28.8	28.8	27.1	27.1	28.2	28.2	30.8	30.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.2	2090	1248	252	18	4419	13.7	.8	.8	.8	1.6	1.6	1.3	1.3	1.2	1.2	
TOT OBS	811	47.3	28.2	5.7	.4	100.0	100.0	1175	1000	1198	1000	1000	100.0	100.0	1046	1046	
TOT PCT	18.4	47.3	28.2	5.7	.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1863-1970

AREA 0007 NDDEOKA
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TABLE 4

HOUR	CALM	PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)						48+	MEAN	PCT FREQ
		1-3	4-10	11-21	22-33	34-47				
0003	.8	4.0	35.6	42.0	15.8	1.5	.3	14.0	100.0	
0609	1.6	5.1	36.2	40.4	15.4	1.3	.0	13.5	100.0	
1215	1.3	4.8	34.8	42.8	14.6	1.7	.0	13.7	100.0	
1821	1.2	4.3	36.7	42.4	13.5	1.9	.0	13.5	100.0	
TOT	54	200	1581	1854	656	71	3	13.7	100.0	
PCT	1.2	4.5	35.8	42.0	14.8	1.6	.1		100.0	

TABLE 5

PCT FREQ OF TOTAL CLUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	PCT FREQ OF TOTAL CLUD AMOUNT (EIGHTHS) BY WIND DIRECTION								MEAN CLOUD COVER		PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH 24/8 AND OCCURRENCE OF NH 25/8 BY WIND DIRECTION										TOTAL OBS	
	0-2	3-4	5-7	8 & NBSCD	7.5	7.0	7.2	7.0	5.1	5.9	000	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	5.5	3.6	7.5	7.0	3.7	7.2	7.0	7.0	5.1	5.9	.1	.0	.4	1.3	4.1	5.3	.5	.1	.0	.0	12.0	
NE	2.7	1.2	3.7	7.2	.7	3.3	7.2	7.0	5.9	5.9	.1	.1	.5	1.2	3.3	2.7	.4	.1	.0	.0	6.4	
E	.7	.2	.7	3.3	.7	3.3	7.2	7.0	5.9	5.9	.2	.1	.1	.4	1.5	2.7	.1	.1	.0	.0	1.8	
SE	.4	.1	1.6	1.7	1.6	1.7	7.2	7.0	5.9	5.9	.0	.0	.2	.2	1.1	.6	.2	.1	.1	.0	1.3	
S	.9	.6	1.4	2.6	1.4	2.6	7.2	7.0	5.9	5.9	.0	.0	.3	.7	1.3	.8	.4	.0	.0	.0	2.0	
SW	1.4	.7	1.9	1.8	1.9	1.8	7.2	7.0	5.1	5.1	.0	.0	.2	.5	1.1	.6	.3	.1	.1	.0	2.8	
W	4.3	2.4	5.4	2.5	5.4	2.5	7.2	7.0	4.4	4.4	.0	.0	.1	.6	2.7	2.2	.8	.2	.1	.0	8.0	
NW	7.4	4.6	9.1	4.2	9.1	4.2	7.2	7.0	4.4	4.4	.0	.0	.4	1.1	4.4	2.6	.8	.1	.3	.0	15.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.6	.1	.6	.4	.6	.4	.4	.4	4.5	4.5	.0	.0	.1	.0	.3	.1	.0	.0	.0	.0	1.2	
TOT OBS	238	134	318	304	318	304	304	304	5.1	5.1	4	2	23	60	198	154	33	7	5	0	508	994
TOT PCT	23.9	13.5	32.0	30.6	32.0	30.6	30.6	30.6	100.0	100.0	.4	.2	2.3	6.0	19.9	15.5	3.2	.7	.5	.0	51.1	100.0

PERIOD: (PRIMARY) 1933-1970
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TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	VSBY (NM) = OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.5	.5	.5	.5	.5	.5	.5	.5
= OR >5000	1.0	1.2	1.2	1.2	1.2	1.2	1.2	1.2
= OR >3500	3.2	4.5	4.5	4.5	4.5	4.5	4.5	4.5
= OR >2000	14.2	19.0	19.8	19.9	19.9	19.9	19.9	19.9
= OR >1000	25.9	37.1	39.5	39.7	39.7	39.7	39.7	39.7
= OR >600	28.7	42.5	45.4	45.6	45.7	45.7	45.7	45.7
= OR >300	29.9	43.9	47.2	47.8	47.9	48.0	48.0	48.0
= OR >150	29.9	44.1	47.4	48.0	48.1	48.2	48.2	48.2
= OR > 0	30.1	44.3	47.8	48.4	48.5	48.6	48.6	48.6
TOTAL	300	442	477	483	484	485	485	485

TOTAL NUMBER OF OBS: 998

PCT FREQ NH <5/8: 51.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
9.4	10.9	11.7	10.6	8.7	7.5	12.7	8.0	19.9	.5	1094	

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	.1	.1	*	.1	.1	*	.0	*	.0	.0	.4	
ND PCP	*	.0	.0	.0	.0	.0	.0	*	.0	.0	.1	
TOT %	.1	.1	*	.1	.1	*	.0	.1	.0	.0	.4	
PCP	.1	.1	.1	*	*	.1	.0	.1	.0	.0	.5	
ND PCP	*	.1	*	.0	.0	.0	.0	*	.0	.0	.1	
TOT %	.1	.1	.1	*	*	.1	.0	.1	.0	.0	.6	
PCP	.1	.5	.1	.1	.2	.1	.1	.1	.0	.0	1.3	
ND PCP	*	*	*	.0	*	*	.0	*	.0	.0	.2	
TOT %	.2	.5	.1	.1	.3	.1	.1	.1	.0	.0	1.5	
PCP	.5	.9	.6	.4	.3	.2	*	.2	.0	.0	3.0	
ND PCP	.1	.2	.1	.1	.1	.1	.1	.2	.0	.0	1.0	
TOT %	.6	1.1	.7	.5	.3	.2	.2	.4	.0	.0	4.0	
PCP	1.2	.9	1.0	.6	.2	.1	.1	.4	.0	.0	4.5	
ND PCP	5.1	3.6	1.3	.6	.7	.7	2.1	5.4	.0	.1	19.6	
TOT %	6.3	4.5	2.2	1.2	.9	.8	2.2	5.8	.0	.1	24.1	
PCP	.5	.6	.1	.1	.1	*	.1	.1	.0	.0	1.6	
ND PCP	17.0	8.9	2.9	1.6	1.5	2.5	8.7	23.8	.0	.8	67.7	
TOT %	17.5	9.5	3.0	1.7	1.6	2.5	8.8	23.9	.0	.8	69.3	
TOT OBS	24.0	15.8	6.3	3.6	3.2	3.7	11.3	30.4	.0	.9	100.0	3713

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TABLE 9
PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

WSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*	
	4-10	.1	.1	*	*	*	.0	.0	*	.0		.3	
	11-21	.1	.1	*	*	*	.0	.0	*	.0		.2	
	22+	.2	.2	.1	.1	.1	*	*	.1	.0	.0	.8	
	TOT %	.0	*	.0	*	*	*	.0	.0	.0	.0	.1	
1/2<1	0-3	.1	*	*	.0	.0	.0	.0	.1	.0	.0	.2	
	4-10	.1	.1	.1	*	.0	*	.0	.0	.0		.2	
	11-21	.1	.1	.1	*	.0	*	.0	.0	.0		.2	
	22+	.2	.2	.1	*	.1	*	.0	.1	.0	.0	.8	
	TOT %	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
1<2	0-3	.1	.2	.1	.0	.1	.1	.1	.1	.0	.0	.6	
	4-10	.1	.3	*	.1	.1	.1	.0	*	.0		.8	
	11-21	.1	.1	.1	.1	.2	.1	.0	*	.0		.6	
	22+	.3	.6	.2	.1	.3	.2	.1	.2	.0	.0	2.0	
	TOT %	.1	.1	*	.0	*	*	*	*	.0	.1	.3	
2<5	0-3	.5	.7	.3	.2	.1	.1	.2	.3	.0	.0	2.3	
	4-10	.6	.5	.2	.2	.1	.1	.2	.4	.0	.0	2.3	
	11-21	.4	.4	.3	.1	.1	.1	.1	.1	.0	.1	1.9	
	22+	1.5	1.7	.8	.5	.4	.3	.4	1.0	.0	.1	6.7	
	TOT %	.2	.3	.1	*	.0	.1	.1	.2	.0	.2	1.0	
5<10	0-3	1.7	1.6	.8	.4	.3	.3	.7	1.5	.0	.0	7.4	
	4-10	2.9	1.8	.8	.5	.3	.3	.9	2.6	.0	.0	10.0	
	11-21	1.1	.7	.5	.2	.2	.1	.3	.9	.0	.0	4.0	
	22+	5.8	4.3	2.1	1.1	.8	.8	2.0	5.3	.0	.2	22.4	
	TOT %	.5	.6	.3	.2	.3	.3	.3	.5	.0	.9	4.0	
10+	0-3	6.2	4.1	1.8	.9	.6	1.1	3.1	7.4	.0	.0	25.2	
	4-10	8.0	3.6	1.0	.4	.4	.9	3.6	11.0	.0	.0	29.0	
	11-21	2.4	1.0	.1	.1	.1	.2	1.4	3.6	.0	.0	9.0	
	22+	17.2	9.4	3.2	1.7	1.5	2.6	8.4	22.5	.0	.9	67.3	
	TOT %	25.2	16.4	6.5	3.5	3.1	4.0	11.0	29.2	.0	1.1	100.0	
	TOT OBS	4121											

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000 140	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	.4	.0	1.5	7.3	19.6	18.9	4.4	.0	.7	.0	52.7	47.3	275
06009	.3	.3	2.4	4.7	19.3	13.2	3.1	.7	.3	.0	44.4	55.6	295
12015	.0	.0	3.0	5.9	19.1	12.7	1.3	1.7	.0	.0	43.6	56.4	236
18021	.8	.4	2.1	5.0	17.4	13.7	3.7	.4	.8	.0	44.4	55.6	241
TOT	4	2	23	60	198	154	33	7	5	0	486	501	1047
PCT	.4	.2	2.2	5.7	18.9	14.7	3.2	.7	.5	.0	46.4	53.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.0	.4	4.2	21.0	74.4	262
06009	.4	.4	.4	5.0	20.0	73.9	280
12015	.0	.0	1.3	4.0	25.6	69.2	227
18021	.0	.0	.4	3.9	29.7	65.9	232
TOT	1	1	6	43	238	712	1001
PCT	.1	.1	.6	4.3	23.8	71.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH > 4/8) BY HOUR

HOUR (GMT)	<150 CEILING	<50YD	<1 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	.8	2.3	13.7	42.4	43.9	262
06009	.4	3.6	11.1	36.1	52.9	280
12015	.0	3.1	13.2	33.0	53.7	227
18021	1.7	4.3	11.2	35.8	53.0	232
TOT	7	33	123	370	308	1001
PCT	.7	3.3	12.3	37.0	50.7	100.0

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TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL	PCT
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100				
70/74	.0	.0	.0	.4	.2	.5	.1	.1				
65/69	.0	.0	.0	.3	1.5	2.3	2.2	1.9				
60/64	.0	.0	.4	1.9	3.6	2.9	3.9	2.7				
55/59	.0	.4	2.5	4.6	8.4	5.1	3.8	2.3				
50/54	.0	.3	2.8	6.0	9.3	3.5	3.5	1.8				
45/49	.0	.2	1.4	3.6	5.0	2.1	1.4	1.2				
40/44	.0	.0	.4	.9	2.0	.9	.4	.3				
35/39	.0	.0	.0	.2	.0	.1	.0	.1				
TOTAL	.0	.9	7.5	17.8	29.8	17.4	15.3	10.4				
PCT	.0	.9	7.6	18.0	30.1	17.6	15.4	10.5				

TABLE 14

		PERCENT FREQUENCY OF WIND DIRECTION BY TEMP										VAR	CALM
		N	NE	E	SE	S	SW	W	NW	VAR	CALM		
70/74	.1	.1	.1	.0	.1	.4	.5	.0	.1	.0	.0	.0	.0
65/69	.3	.5	.3	.9	1.5	2.0	2.1	1.8	.3	.0	.0	.0	.0
60/64	1.8	1.7	2.5	1.5	.8	.7	1.2	3.2	2.3	.0	.4	.0	.0
55/59	7.1	5.4	2.2	.8	.7	1.5	1.5	3.2	5.4	.0	.8	.0	.0
50/54	9.0	5.4	1.5	.5	.2	.5	.5	2.6	7.1	.0	.4	.0	.0
45/49	4.5	2.3	.2	.1	.1	.1	.1	2.0	5.4	.0	.2	.0	.0
40/44	1.4	.5	.0	.0	.0	.0	.0	.4	2.6	.0	.0	.0	.0
35/39	.2	.5	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0
TOTAL	24.4	16.0	6.6	3.7	4.2	5.9	13.3	24.0	.0	1.8			

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR												TOTAL OBS
		MAX	99%	95%	50%	5%	1%	MIN	MEAN	MEAN	TOTAL	
00003	73	70	65	54	43	38	28	28	53.6	1157	1157	1157
06009	73	69	66	54	43	39	28	28	53.7	991	991	991
12015	73	68	64	52	41	36	27	27	51.8	1178	1178	1178
18021	70	66	63	51	40	36	30	30	51.3	1047	1047	1047
TOT	73	68	64	52	42	37	27	27	52.6	4373	4373	4373

TABLE 16

		PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR										TOTAL OBS
		0-29	30-39	60-69	70-79	80-89	90-100	MEAN	MEAN	TOTAL	OBS	
00003	.0	.0	24.2	29.2	21.7	15.7	9.3	.69	.69	281	281	281
06009	.0	.0	33.6	30.9	13.9	13.1	8.5	.67	.67	259	259	259
12015	.0	.0	29.0	25.4	18.3	13.4	13.8	.70	.70	224	224	224
18021	.0	.0	18.6	34.7	15.7	19.9	11.0	.71	.71	236	236	236
TOT	0	0	264	301	175	155	105	.69	.69	1000	1000	1000

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	25	29	33	37	41	45	49	53	57	61	65	69	73	TOT	W	W FOG	W FOG
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0	.0
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	.0	.0	.1
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	.0	.0	.2
6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.0	.1
5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	.0	.0	.4
4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	.0	.0	.7
3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	.0	.0	.3
2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	53	.0	.0	1.4
1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	.0	.0	.3
0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	134	.0	.0	3.7
-1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	.0	.0	.4
-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	162	.0	.0	4.5
-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	34	.0	.0	.9
-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	240	.0	.0	6.6
-5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	277	.0	.0	7.7
-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	63	.0	.0	1.8
-7/-8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	384	.0	.0	10.5
-9/-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	456	.0	.0	12.7
-11/-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	764	.0	.0	21.2
-14/-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	522	.0	.0	14.5
-17/-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	230	.0	.0	6.4
-20/-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	118	.0	.0	3.3
-23/-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	43	.0	.0	1.2
-26/-30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	.0	.0	.4
TOTAL	3	7	21	93	244	831	706	711	472	343	120	31	3	3585	26	3559	
PCT	.1	.2	.6	2.6	6.8	23.2	19.7	19.8	13.2	5.6	3.3	.9	.1	100.0	.7	99.3	

PERIOD: (OVER-ALL) 1963-1970 FEBRUARY AREA 0007 NOBEDKA 32.2N 133.1E

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N					NE					PCT			
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.8	.0	.0	.0	.0	.6	.3	.1	.0	.0	.0	.0	.4
1-2	.5	3.8	2.6	.0	.0	.0	6.8	.0	3.1	1.0	.0	.0	.0	4.1
3-4	.0	2.0	6.9	.6	.0	.0	9.5	.2	1.7	3.4	.7	.0	.0	6.1
5-6	.0	.7	3.0	1.6	.2	.0	5.4	.0	1.4	1.2	.0	.0	.0	2.6
7	.0	.0	2.1	.0	.0	.0	2.1	.0	.0	.6	.7	.0	.0	1.3
8-9	.0	.0	.8	.2	.0	.0	1.1	.0	.0	.1	.2	.0	.0	.3
10-11	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.5	.2	.0	.7	.0	.0	.0	.2	.2	.0	.5
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	7.3	15.7	2.9	.4	.0	26.8	.5	6.4	6.2	2.4	.5	.0	16.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.2	.0	.0	.0	.0	.4	.0	.5	.0	.0	.0	.0	.5
1-2	.0	.6	.4	.0	.0	.0	1.0	.0	.9	.1	.0	.0	.0	1.0
3-4	.0	.4	.9	.0	.0	.0	1.3	.0	.4	1.0	.0	.0	.0	1.4
5-6	.0	.0	.5	.4	.0	.0	.6	.0	.0	.3	.0	.0	.0	.6
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.3	1.7	.4	.0	.0	3.6	.0	1.8	1.4	.3	.0	.0	3.5

FEBRUARY

PERIOD: (OVER-ALL) 1963-1970

AREA 0007 NOBODKA
32.2N 133.1E

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.0	.0	.0	.0	1.2
1-2	.0	.4	.4	.0	.0	.0	.0	.0	.5	.8	.0	.0	.0	1.2
3-4	.0	.5	.7	.4	.0	.0	1.6	.0	.0	1.9	.5	.0	.0	2.4
5-6	.0	.0	.4	.2	.0	.0	.6	.0	.0	.3	.3	.0	.0	.6
7	.0	.0	.0	.2	.0	.0	.2	.0	.0	.5	.0	.0	.0	.3
8-9	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.9	1.7	.8	.0	.2	3.7	.0	1.7	3.4	1.1	.0	.0	6.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2	.0	1.5	.0	.0	.0	.0	1.5
1-2	.0	1.7	1.0	.0	.0	.0	3.3	.2	3.6	2.1	.0	.0	.0	5.9
3-4	.2	1.3	1.7	.5	.0	.0	3.7	.2	2.7	4.2	.0	.0	.0	8.0
5-6	.0	.2	2.9	.9	.0	.0	4.1	.0	.3	4.6	.9	.1	.0	5.8
7	.0	.0	.9	.2	.0	.0	1.1	.0	.0	1.4	.7	.2	.0	2.4
8-9	.0	.0	.0	.6	.0	.0	.6	.0	.0	1.1	1.3	.0	.0	1.4
10-11	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.7	.0	.0	.7
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.2	.0	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	3.5	7.1	2.2	.2	.0	13.3	.5	8.1	12.4	4.7	.3	.0	26.0

PERIOD: (OVER-ALL) 1963-1970

FEBRUARY

AREA 0007, NOBODKA
32.2N 133.1E

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)							TOT OBS
	0-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	1.7	4.5	.0	.0	.0	.0	6.2	
1-2	1.0	14.6	8.8	.0	.0	.0	24.3	
3-4	.7	9.1	20.5	3.6	.0	.0	33.9	
5-6	.0	2.6	13.1	4.5	.2	.0	20.5	
7	.0	.0	5.5	1.9	.2	.0	7.6	
8-9	.0	.0	1.2	2.4	.0	.0	3.6	
10-11	.0	.0	.2	1.2	.2	.0	1.7	
12	.0	.0	.0	.7	.2	.0	1.0	
13-16	.0	.0	.0	.2	.2	.2	.7	
17-19	.0	.0	.0	.0	.2	.0	.0	
20-22	.0	.0	.0	.2	.2	.0	.5	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.3	30.8	49.4	14.8	1.4	.2	100.0	
							419	

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.1	12.5	18.6	8.2	2.3	1.1	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	391	3
6-7	.1	1.9	6.5	9.4	3.7	2.3	.8	.2	.7	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	216	5
8-9	.0	.6	1.7	2.6	3.1	1.2	.6	.8	.7	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	96	7
10-11	.0	.4	.5	.6	.6	.9	.5	.2	.4	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	36	9
12-13	.0	.0	.0	.2	.0	.1	.0	.2	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	3	11
>13	.0	.0	.0	.0	.2	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	5
INDET	4.4	2.6	2.7	.8	1.2	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	101	2
TOTAL	56	151	253	184	93	49	18	16	18	0	2	1	1	2	0	0	0	0	0	843	4
PCT	6.6	17.9	30.0	21.3	11.0	5.8	2.1	1.9	2.1	.0	.2	.1	.2	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1861-1970

MARCH

ARNA 0007 NORDENKA
32.2N 139.0E

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHNR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT OB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA						TOTAL OBS
				FRZG PCPN	SNOW PCPN	OTHER FRZN PCPN					FOG PCPN	SMOKE NO	DUST NO	BLW NO	HAZE NO	SIG NO	
N	1.7	4	.9	.0	.0	.0	.0	2.3		*	.3	.2	.0	.0	.0	21.4	
NE	2.0	.1	.6	.0	.0	.0	.0	2.7		.0	.3	.1	.0	.0	.0	14.5	
E	1.1	.1	.4	.0	.0	.0	.0	1.0		.0	.1	.1	.0	.0	.0	5.7	
SE	1.0	.1	.2	.0	.0	.0	.0	1.3		.0	*	*	.0	.0	.0	3.4	
S	1.3	.1	.3	.0	.0	.0	.0	1.7		*	.1	.1	.0	.0	.0	4.3	
SW	.6	.1	.3	.0	.0	.0	.0	.9		.0	.2	.1	.0	.0	.0	3.3	
W	.3	*	*	.0	.0	.0	.0	.4		*	.2	*	.0	.0	.0	10.6	
NW	.5	.1	.3	.0	.0	.0	.0	.8		.0	.1	.1	.0	.0	.0	19.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
CALM	*	.0	.1	.0	.0	.0	.0	.1		.0	.1	.0	.0	.0	.0	.9	
TOT OBS	365	29	132	.0	.0	.0	.0	.1	494	.3	.58	.29	.0	.0	.0	3606	4268
TOT PCT	8.6	.7	3.1	.0	.0	.0	.0	11.6		.1	1.4	.7	.0	.0	.0	86.4	

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHNR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT OB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA						TOTAL OBS
				FRZG PCPN	SNOW PCPN	OTHER FRZN PCPN					FOG PCPN	SMOKE NO	DUST NO	BLW NO	HAZE NO	SIG NO	
0003	8.7	.8	2.4	.0	.0	.0	.1	11.1		.0	1.3	1.0	.0	.0	.0	86.6	
0609	7.7	.4	2.6	.0	.0	.0	.0	10.3		.2	1.5	.5	.0	.0	.0	87.6	
1215	8.0	.8	3.0	.0	.0	.0	.0	11.2		.0	1.4	.7	.0	.0	.0	86.7	
1821	9.7	.7	4.6	.0	.0	.0	.0	13.8	500	.1	1.2	.5	.0	.0	.0	84.5	
TOT	368	29	135	.0	.0	.0	.1	11.6		.3	.59	.29	.0	.0	.0	3724	4313
PCT	8.5	.7	3.1	.0	.0	.0	.0			.1	1.4	.7	.0	.0	.0	86.3	

MARCH

PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1861-1970

AREA 0007 NORSFOLK
32.2N 133.0E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)					
	0-3	4-10	11-21	22-33	34-47	48+	00	03	06	09				12	15	18	21		
N	1.1	8.2	10.3	4.0	.6	*	24.1	14.4	23.0	24.7	23.0	21.4	18.9	24.2	28.1	28.2	28.1		
NE	.9	6.7	7.3	2.5	.3	*	17.8	13.6	19.9	21.7	16.9	16.6	14.5	19.5	19.1	19.4	20.4		
E	.5	3.5	2.7	1.0	.1	*	7.8	12.5	7.5	0.9	8.2	8.7	8.6	7.9	5.5	7.1	7.1		
SE	.3	2.3	2.1	.7	.2	.0	5.6	12.3	5.8	4.6	7.0	6.1	8.5	5.4	3.1	3.8	3.8		
S	.6	2.5	2.0	1.0	.2	.0	6.3	13.2	7.7	5.3	7.6	7.9	7.1	6.1	3.7	4.4	4.4		
SW	.7	2.6	2.0	.8	.1	.0	6.2	12.0	5.1	4.8	6.8	9.4	7.7	6.1	6.2	4.3	4.3		
W	.5	4.0	4.6	1.6	.2	.0	10.8	13.9	11.1	9.5	11.3	12.0	12.0	11.5	12.7	8.2	8.2		
NW	.6	6.5	8.9	3.3	.6	*	20.0	14.6	18.6	19.6	16.1	17.2	20.4	22.0	20.8	23.4	23.4		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	1.4	1884	2073	773	113	7	5193	1.4	1.2	1.0	3.0	.7	2.4	1.5	1.6	1.1	1.1		
TOT OBS	341	4010	4010	14.9	2.2	.1		100.0	460	477	465	466	491	923	430	749	749		
TOT PCT	6.6	36.3							100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)														
	0-6	7-16	17-27	28-40						00	03	06	09	12	15	18	21							
N	4.3	10.7	7.2	1.8	.1			24.1	14.4	24.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1
NE	3.5	8.3	4.9	.9	.1			17.8	13.6	21.1	16.6	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4
E	1.9	3.9	1.6	.4	.1			7.0	12.5	3.4	8.4	8.5	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
SE	1.4	2.4	1.3	.4	*			5.6	13.3	4.0	6.3	6.3	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
S	1.8	2.4	1.3	.5	*			6.3	13.2	6.1	7.7	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
SW	1.8	2.7	1.3	.3	*			6.2	12.0	4.9	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
W	1.9	5.3	3.0	.7	*			10.8	13.9	10.0	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7
NW	3.3	9.3	6.0	1.3	.2			20.0	14.6	19.2	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.4							1.4	13.6	1.1	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
TOTL OBS	1090	2342	1393	332	28		5193			1427	1153	1424	1424	1424	1424	1424	1424	1424	1424	1424	1424	1424	1424	1424
TOTL PCT	21.1	45.1	26.8	6.4	.5			100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

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TABLE 4

HOUR	PERCENTAGE: FREQUENCY OF WIND SPEED BY HOUR (GMT)					PCT MEAN PRG	TOTAL OBS		
	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21 22-33 34-47	48+				
0603	1.1	5.6	34.5	39.0	16.9	2.8	14.1	100.0	1427
0609	1.6	4.6	37.2	38.9	15.5	2.1	13.9	100.0	1153
2215	1.8	6.4	37.1	36.2	14.6	1.6	13.3	100.0	1414
0821	1.3	3.6	36.6	44.2	12.2	2.2	13.5	100.0	1199
TOT	75	266	1884	2075	773	113	13.6	100.0	5193
PCT	1.4	5.1	36.3	40.0	14.9	2.2	.1		

TABLE 5

WIND DIR	PCT FREQ OF TOTAL CLOUD AMOUNT BY WIND DIRECTION					TOTAL		MEAN CLOUD COVER
	0-2	3-4	5-7	8-6	QBSQ	DBS		
N	6.0	3.0	6.5	7.2			5.0	
NE	2.9	1.7	3.5	7.0			5.0	
E	1.1	.5	1.7	4.3			6.2	
SE	.8	.3	1.3	4.0			6.4	
S	.6	.4	2.4	4.7			6.7	
SW	2.0	.7	2.1	2.0			4.9	
W	4.8	2.9	3.2	2.5			4.0	
NW	7.0	3.3	4.6	3.6			3.9	
VAR	.0	.0	.0	.5			.0	
CALM	.5	.3	.2	.5			.0	
TOT DBS	29.4	14.8	28.9	40.6		113.7	4.5	
TOT PCT	25.9	13.0	25.4	35.7		100.0	5.1	

TABLE 4

[illegible]

PERIOD: (PRIMARY) 1923-1970
(OVER-ALL) 1861-1970

MARCH

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TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	OR >10	OR >5	OR >2	OR >1	OR >1/2	OR >1/4	OR >50YD	OR >0
OR >6500	1.0	1.3	1.4	1.4	1.4	1.4	1.4	1.4
OR >5000	1.4	2.0	2.4	2.4	2.4	2.4	2.4	2.4
OR >3500	3.9	5.4	6.0	6.0	6.0	6.0	6.0	6.0
OR >2000	15.1	19.5	21.0	21.1	21.1	21.1	21.1	21.1
OR >1000	23.9	35.4	38.3	38.4	38.4	38.5	38.5	38.5
OR >600	26.9	41.1	44.6	44.9	45.0	45.1	45.1	45.1
OR >300	27.5	42.2	46.0	46.4	46.5	46.6	46.6	46.6
OR >150	27.5	42.3	46.1	46.5	46.6	46.7	46.7	46.7
OR >0	27.7	42.6	46.6	47.4	47.5	47.6	47.7	47.7
TOTAL	316	486	532	541	543	544	545	545

TOTAL NUMBER OF OBS: 1142

PCT FREQ NH <5/8: 52.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
14.7	10.1	11.8	8.5	7.0	6.4	9.6	8.5	22.4	1.0	1230	

PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1861-1970

MARCH

AREA 0007 NOBEDKA
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	.1	*	.1	.1	*	*	*	*	.0	.0	.4	
NO PCP	.0	*	.0	.0	.0	.0	.0	.0	.0	*	*	
TOT %	.1	.1	.1	.1	*	*	*	*	.0	*	.4	
PCP	*	.1	*	.1	.2	*	.0	*	.0	.0	.4	
NO PCP	*	.1	.0	.0	.1	*	*	*	.0	*	.3	
TOT %	*	.2	*	.1	.3	*	*	*	.0	*	.7	
PCP	.2	.4	.2	.2	.2	.2	.0	*	.0	*	1.5	
NO PCP	.1	.1	.0	*	.0	*	.1	.1	.0	.0	.4	
TOT %	.3	.4	.2	.3	.2	.2	.1	.1	.0	*	1.9	
PCP	.5	.7	.4	.3	.5	.2	.1	.2	.0	*	2.9	
NO PCP	.5	.2	.2	.1	.1	.1	.1	.3	.0	.0	1.6	
TOT %	1.0	1.0	.5	.4	.6	.3	.2	.5	.0	*	4.5	
PCP	1.0	.9	.7	.5	.5	.4	.2	.3	.0	.0	4.5	
NO PCP	5.0	3.7	1.4	1.2	1.4	1.3	2.1	3.4	.0	.2	19.7	
TOT %	6.0	4.7	2.1	1.7	1.9	1.7	2.2	3.7	.0	.2	24.2	
PCP	.5	.5	.2	.1	.2	.1	*	.2	.0	.1	1.9	
NO PCP	16.3	10.8	4.2	2.6	3.0	4.0	8.7	16.1	.0	.7	66.4	
TOT %	16.8	11.3	4.4	2.7	3.2	4.2	8.7	16.3	.0	.7	68.3	
TOT OBS												4268
TOT PCT	24.2	17.6	7.4	5.2	6.1	6.4	11.2	20.8	.0	1.1	100.0	

PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1861-1970

MARCH

AREA 0007 NOBEOKA
32.2N 133.0E

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (Nh)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	*	.0	.0	.0	.0	.0	.0	.0	*	.1	
	4-10	*	.0	.0	*	.0	.0	*	*	.0		.1	
	11-21	*	.0	.0	*	.0	.0	*	*	.0		.1	
	22+	*	*	.1	.1	*	*	.0	*	.0		.3	
	TOT %	.1	.1	.1	.1	*	*	*	.1	.0	*	.6	
1/2<1	0-3	.0	.0	.0	.0	*	.0	.0	.0	.0	*	.1	
	4-10	.0	.1	*	.0	*	*	*	*	.0		.2	
	11-21	*	*	*	.1	.0	.0	.0	*	.0		.1	
	22+	.1	.1	.1	.1	*	*	.0	*	.0	*	.4	
	TOT %	.1	.2	.1	.1	.2	*	*	.1	.0	*	.8	
1-2	0-3	*	*	*	.0	.0	*	*	*	.0	*	.1	
	4-10	.1	.1	*	.1	.1	*	*	*	.0		.5	
	11-21	.2	.3	.1	.1	.1	.1	*	.1	.0		1.0	
	22+	.2	.1	.1	.2	.2	.1	*	.0	.0		.9	
	TOT %	.5	.6	.3	.4	.3	.2	.1	.2	.0	*	2.6	
2<5	0-3	.1	*	.1	*	.1	.1	*	.1	.0	.1	.5	
	4-10	.5	.5	.3	.1	.2	.1	.2	.2	.0		2.0	
	11-21	.5	.7	.5	.3	.3	.2	.2	.3	.0		2.8	
	22+	.4	.4	.2	.1	.3	.1	.1	.1	.0		1.6	
	TOT %	1.4	1.6	1.0	.5	.8	.5	.4	.7	.0	.1	6.9	
5<10	0-3	.3	.3	.1	*	.1	.2	.1	.2	.0	.3	1.5	
	4-10	1.8	1.6	.7	.6	.7	.6	.6	1.0	.0		7.6	
	11-21	2.3	1.6	.8	.7	.3	.5	.7	1.3	.0		8.8	
	22+	1.2	.9	.3	.1	.3	.3	.5	.9	.0		4.6	
	TOT %	5.5	4.3	2.0	1.6	1.8	1.6	2.1	3.5	.0	.3	22.5	
10+	0-3	.7	.5	.3	.2	.4	.4	.3	.3	.0	.7	3.8	
	4-10	5.8	4.7	2.5	1.4	1.6	1.8	3.2	5.2	.0		26.2	
	11-21	7.7	4.7	1.3	.9	.9	1.4	3.9	7.6	.0		28.2	
	22+	2.3	1.0	.2	.2	.3	.4	1.2	2.7	.0		8.3	
	TOT %	16.6	10.9	4.3	2.6	3.1	4.0	8.6	15.8	.0	.7	66.6	
TOT OBS													4698
TOT PCT		24.2	17.7	7.6	5.2	6.3	6.3	11.2	20.4	.0	1.1	100.0	

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PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, IN) 34/8) AND
OCCURRENCE OF 'H 35/8 BY HOUR

WHDUR (CENT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH ANY	<5/8 HGT	TOTAL OBS
000003	.4	.3	2.2	7.6	17.5	17.5	3.2	1.0	.6	.6	51.3		48.7	314
00509	1.7	.0	1.0	7.3	20.7	12.0	2.3	.3	.0	1.7	47.0		53.0	300
12615	.7	.0	.7	6.2	14.1	12.4	4.5	1.4	.3	.7	41.0		59.0	290
18621	1.1	.0	1.8	4.2	14.5	16.3	4.2	1.1	.7	.7	44.5		55.5	283
TOT PCT	12 1.0	1 .1	17 1.4	76 6.4	199 16.8	173 14.6	42 3.5	11 .9	5 .4	11 .9	547 46.1		640 53.9	1187 100.0

PERCENT FREQUENCY VSBY (NM) BY HOUR

HRHUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
000003	.3	.6	.3	3.2	22.3	73.1	309
060009	.3	.0	1.4	5.8	21.8	70.6	293
120015	.0	.0	1.1	5.1	24.7	69.1	275
180021	.0	.4	.7	5.2	26.0	67.7	269
TOT	2	3	10	55	271	805	1146
PCT	.2	.3	.9	4.0	23.6	70.2	100.0

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET), NH >4/8, BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL DBS
000003	1.0	3.6	14.2	39.2	46.0	309
060009	2.0	3.4	14.3	34.1	51.5	293
120015	1.1	1.8	13.1	30.9	56.0	275
180021	1.5	3.7	11.5	36.4	52.0	269
TOT	16	36	153	404	589	1146
PCT	1.4	3.1	13.4	35.3	51.4	100.0

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PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1861-1970

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TABLE 13

		PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL OBS	PCT FREQ
TEMP F		0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100				
75/79	.0	.0	.0	.0	.1	.2	.5	.1	.0	.2	.1	.0	
70/74	.0	.0	.0	.1	.2	.8	2.1	2.8	3.2	2.8	.9	.5	
65/69	.0	.1	.4	1.9	3.0	7.7	7.7	5.1	3.2	3.2	3.2	2.8	
60/64	.2	.3	1.9	4.2	7.6	6.4	3.7	3.3	3.3	3.3	3.2	2.8	
55/59	.0	.1	2.2	4.2	5.0	6.3	2.7	2.4	2.5	2.5	2.5	2.5	
50/54	.0	.2	1.4	5.0	1.8	2.3	1.1	.2	.2	.2	.2	.2	
45/49	.0	.0	.5	1.0	.5	.3	.1	.1	.1	.1	.1	.1	
40/44	.0	.0	.0	.0	.5	.3	.3	.1	.1	.1	.1	.1	
TOTAL	2	7	71	163	290	253	185	140					
PCT	.2	.6	6.4	14.7	26.1	22.8	16.7	12.6					

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP												
	N	NE	E	SE	S	SW	W	NW	VAR	CALM		
75/79	.0	.0	.0	.0	.0	.1	.2	.0	.0	.0		
70/74	.0	.0	.1	.3	1.0	.8	.2	.1	.0	.0		
65/69	.9	.7	1.5	1.7	3.2	1.6	.6	.7	.0	.0		
60/64	3.9	4.2	3.2	3.5	2.4	2.9	4.7	3.9	.0	.3		
55/59	7.7	5.0	1.7	.9	1.1	1.0	3.9	5.4	.0	.7		
50/54	6.9	3.8	1.2	.3	.4	.6	1.7	5.4	.0	.2		
45/49	1.9	1.7	.2	.0	.0	.3	.5	2.1	.0	.0		
40/44	.2	.5	.1	.1	.0	.0	.0	.4	.0	.0		
35/39												
30/34												
25/29												
20/24												
15/19												
10/14												
5/9												
TOTAL	21.5	15.9	8.0	6.7	8.1	7.2	13.0	18.0	.0	1.6		
PCT												

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR											
HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS		
0003	77	73	68	57	45	41	37	57.1	1385		
0609	79	72	68	57	46	41	36	57.4	1144		
1215	79	72	66	55	45	39	34	56.0	1394		
1821	75	68	64	55	43	38	36	54.7	1200		
TOT	79	72	66	56	45	39	34	56.3	5123		

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR										
HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL	OBS	
00503	.3	20.7	28.6	23.5	14.3	12.6	71	294		
06509	.0	29.4	24.5	16.0	15.6	14.5	70	269		
1215	.0	18.8	28.3	23.2	18.5	11.2	71	276		
1821	.4	18.6	22.5	27.5	18.6	12.5	73	280		
TOT	2	244	291	253	187	142	71	1119		

PERIOD: (PRIMARY) 1933-1970
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TABLF 17
PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FUG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	33	37	41	45	49	53	57	61	65	69	73	77	TOT	W	WD FUG
16	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
11/13	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0
9/10	0	0	0	0	0	0	0	0	0	0	0	0	13	0	0
7/8	0	0	0	0	0	0	0	0	0	0	0	0	25	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	48	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	61	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	14	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	131	0	0
1	0	0	0	0	0	0	0	0	0	0	0	0	34	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	264	0	0
-1	0	0	0	0	0	0	0	0	0	0	0	0	53	0	0
-2	0	0	0	0	0	0	0	0	0	0	0	0	347	0	0
-3	0	0	0	0	0	0	0	0	0	0	0	0	87	0	0
-4	0	0	0	0	0	0	0	0	0	0	0	0	428	0	0
-5	0	0	0	0	0	0	0	0	0	0	0	0	411	0	0
-6	0	0	0	0	0	0	0	0	0	0	0	0	95	0	0
-7/-8	0	0	0	0	0	0	0	0	0	0	0	0	491	0	0
-9/-10	0	0	0	0	0	0	0	0	0	0	0	0	456	0	0
-11/-13	0	0	0	0	0	0	0	0	0	0	0	0	573	0	0
-14/-16	0	0	0	0	0	0	0	0	0	0	0	0	313	0	0
-17/-19	0	0	0	0	0	0	0	0	0	0	0	0	108	0	0
-20/-22	0	0	0	0	0	0	0	0	0	0	0	0	53	0	0
-23/-25	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0
TOTAL	9	43	112	403	584	848	749	844	286	72	15	6	4031	57	3974
PCT	.2	1.1	2.8	11.5	14.5	18.6	20.9	7.1	1.8	72	.4	.1	100.0	1.4	98.6

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N										NE										PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+								
<1	.3	1.0	.0	.0	.0	.0	1.3	.0	.7	.0	.0	.0	.0	.0							
1-2	.3	3.6	1.0	.0	.0	.0	4.8	.0	1.6	1.1	.0	.0	.0	.0							
3-4	.3	1.9	3.5	.3	.0	.0	5.9	.0	2.2	2.0	.5	.0	.0	.0							
5-6	.0	.2	4.1	.0	.0	.0	5.2	.0	.3	2.0	.4	.0	.0	.0							
7	.0	.0	1.3	1.3	.0	.0	2.7	.0	.0	1.0	.3	.0	.0	.0							
8-9	.0	.0	.4	.4	.5	.0	1.4	.0	.3	.3	.3	.0	.0	.0							
10-11	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.3	.0	.0	.0							
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.1	.0	.0	.0							
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0							
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
TOT PCT	.8	6.7	10.8	3.1	.5	.0	21.9	.0	5.0	6.4	2.0	.0	.0	13.4							

HGT	E										SE										PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+								
<1	.0	.3	.0	.0	.0	.0	.3	.0	.5	.0	.0	.0	.0	.0							
1-2	.3	1.1	.4	.0	.0	.0	1.8	.1	.6	1.1	.0	.0	.0	.0							
3-4	.0	.7	1.3	.0	.0	.0	2.0	.0	.6	.9	.0	.0	.0	.0							
5-6	.0	.3	.4	.2	.0	.0	.9	.0	.0	.8	.1	.0	.0	.0							
7	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.3	.0	.0	.0							
8-9	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.1	.0	.0	.0							
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
TOT PCT	.3	2.3	2.7	.4	.0	.0	5.6	.1	1.7	2.7	.4	.0	.0	4.9							

PERIOD: (OVER-ALL) 1963-1970

MARCH

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.7	.0	.0	.0	.0	.7	.3	.1	.0	.0	.0	.0	.3
1-2	.2	.6	.9	.0	.0	.0	1.7	.0	.6	.9	.0	.0	.0	1.5
3-4	.0	.2	.5	.3	.0	.0	1.0	.0	.0	1.1	.0	.0	.0	1.3
5-6	.0	.2	.4	.8	.0	.0	1.5	.0	.6	.8	1.1	.0	.0	2.0
7	.0	.0	.6	.3	.0	.0	1.0	.0	.0	.3	.4	.0	.0	.7
8-9	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.4	.0	.0	.4
10-11	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3
13-16	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.7	2.6	2.0	.2	.0	6.6	.3	1.3	3.1	2.5	.1	.0	7.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.8	.0	.0	.0	.0	.8	.0	1.3	.0	.0	.0	.0	1.3
1-2	.0	1.4	2.2	.0	.0	.0	3.6	.3	2.2	1.3	.0	.0	.0	3.4
3-4	.0	1.2	2.8	.6	.0	.0	4.7	.3	1.7	2.9	1.3	.0	.0	6.1
5-6	.0	.5	1.3	.7	.0	.0	3.0	.0	.3	2.0	1.4	.0	.0	3.8
7	.0	.0	1.7	1.2	.0	.0	2.9	.0	.0	1.5	1.3	.0	.0	2.8
8-9	.0	.0	.5	1.1	.5	.0	2.2	.0	.0	.9	.3	.0	.0	1.7
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.0	.0	.3
12	.0	.0	.0	.8	.0	.0	.8	.0	.0	.0	.3	.0	.0	.3
13-16	.0	.0	.0	.2	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.9	8.9	4.7	1.2	.0	18.7	.5	5.5	8.3	1.4	.8	.3	20.9

AREA 0007, NOBEDKA
32.2N 133.0E

MARCH

PERIOD: (OVER-ALL) 1963-1970

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)										PCT	TOT US\$
	0-3	4-10	11-21	22-33	34-47	48+	48+	48+	48+	48+		
<1	1.8	5.3	.0	.0	.0	.0	.0	.0	.0	.0	7.1	
1-2	1.0	11.6	8.9	.0	.0	.0	.0	.0	.0	.0	21.5	
3-4	.8	6.4	14.9	3.0	.0	.0	.0	.0	.0	.0	27.1	
5-6	.0	2.3	12.4	5.6	.0	.0	.0	.0	.0	.0	20.3	
7	.0	.0	6.8	3.1	.0	.0	.0	.0	.0	.0	11.9	
8-9	.0	.3	1.8	3.8	1.3	.0	.0	.0	.0	.0	7.1	
10-11	.0	.0	.5	.8	.0	.0	.0	.0	.0	.0	1.3	
12	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.0	1.8	
13-16	.0	.0	.0	.5	.8	.0	.0	.0	.0	.0	1.3	
17-19	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.5	
20-22	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.3	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.5	27.6	45.3	20.3	2.8	.3	100.0					395

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<5	2.3	11.9	16.7	8.4	2.2	2.1	.6	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	350	4
6-7	.1	.9	5.1	9.3	7.6	2.4	.9	.3	.6	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	246	6
8-9	.1	.5	1.3	3.2	3.0	1.8	1.0	.8	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	107	7
10-11	.0	.2	.5	.7	.6	.9	.0	.2	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	29	7
12-13	.0	.0	.2	.3	.1	.0	.3	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	8
>13	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	9
INDET	3.7	1.6	1.8	1.5	.5	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	85	3
TOTAL	54	132	232	204	122	66	28	19	11	4	2	0	0	0	0	0	0	0	0	0	874	3
PCT	6.2	15.1	26.3	23.3	14.0	7.6	3.2	2.2	1.3	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	3

APRIL

AREA 0007 NUBESKA
32.1N 139.0E

PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1863-1970

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN SHR	ORZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT OB TIME	TOTAL PCPN OBS	THOR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
			FRZG	SNOW	OTHER PCPN					FOG	SMOKE	DUST	NO	SIG	
N	1.0	#	.0	.0	.0	.0	1.3		#	.4	.3	.0	.0	14.0	
NE	2.1	.1	.7	.1	.0	.0	2.8		#	.5	.3	.0	.0	13.2	
E	2.0	.1	.6	.0	.0	.0	2.7		#	.4	.2	.0	.0	19.7	
SE	1.8	.2	.5	.0	.0	.0	2.5		#	.4	.1	.0	.0	7.6	
S	1.4	.4	.7	.0	.0	.0	2.5		#	.4	.2	.0	.0	7.2	
SW	.8	.1	.2	.0	.0	.0	1.1		.1	.5	.2	.0	.0	8.5	
W	.2	.1	.1	.0	.0	.0	.3		#	.2	.2	.0	.0	9.0	
NW	.5	#	.1	.0	.0	.0	.6		.0	.5	.3	.0	.0	10.4	
VAR	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	#		.0	.1	.1	.0	.0	1.2	
TOT OBS	419	47	137	6	.0	.0		591	11	149	77	.0	.0	3450	4277
TOT PCT	9.8	1.1	3.2	.1	.0	.0	13.8		.3	3.5	1.8	.0	.0	80.7	

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN SHR	ORZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT OB TIME	TOTAL PCPN OBS	THOR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
			FRZG	SNOW	OTHER PCPN					FOG	SMOKE	DUST	NO	SIG	
00003	9.4	1.2	3.5	.1	.0	.0	13.6		.1	3.6	2.2	.0	.0	80.6	
06009	9.5	1.0	3.2	.2	.0	.0	13.6		.1	3.8	1.4	.0	.0	81.2	
12015	10.2	1.3	3.2	.1	.0	.0	14.6		.4	4.0	2.4	.0	.0	78.6	
18021	10.6	1.0	2.5	.2	.0	.0	14.3	607	.4	2.9	1.2	.0	.0	81.2	4333
TOT	431	49	137	6	.0	.0			11	155	80	.0	.0	3461	
PCT	9.9	1.1	3.2	.1	.0	.0	14.0		.3	3.6	1.8	.0	.0	80.3	

APRIL

PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1863-1970

AREA 0007, NDBEOKA
32.1N 133.0E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)				
	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD		00	03	06	09	12
N	.9	5.5	6.5	2.5	.4	*	*	15.8	14.1		17.1	18.4	13.7	13.5	11.9
NE	.9	6.3	7.2	2.4	.3	*	*	17.0	13.5		16.5	19.8	19.2	14.1	14.0
E	.8	4.7	4.9	2.1	.2	*	*	12.7	13.6		11.8	12.2	11.3	14.6	15.6
SE	.7	4.5	4.2	1.4	.1	.0	.0	10.9	12.7		11.7	11.4	10.6	12.0	10.1
S	.8	4.6	3.8	1.2	.1	*	*	10.5	12.4		10.8	9.4	11.8	11.9	13.2
SW	.7	4.6	3.7	1.1	.1	.0	.0	10.2	12.0		9.4	7.8	10.8	13.4	9.6
W	.7	3.8	3.6	1.2	*	.0	.0	9.3	12.3		7.7	7.7	10.2	9.2	8.8
NW	.7	4.2	4.9	1.7	.1	*	*	11.6	13.4		13.5	11.1	10.6	6.9	10.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0
CALM	2.0	1967	2002	704	65	7	5162	2.0	12.9		1.7	2.2	1.8	1.6	3.2
TOT OBS	417	38.1	38.8	13.6	1.3	.1		100.0			5.7	5.27	4.93	6.95	5.25
TOT PCT	8.1	38.1	38.8	13.6	1.3	.1		100.0			100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	HOUR (GMT)				10 11	12 13
	0-6	7-16	17-27	28-40	06 09						14 15	16 17	18 19			
N	3.1	7.0	4.6	1.1	*			15.8	14.5	17.9	13.6	14.3	17.1			
NE	3.4	8.1	4.4	1.0	*			17.0	13.5	18.6	16.2	14.7	18.1			
E	3.0	5.4	3.5	.8	.1			12.7	12.6	12.0	13.2	14.4	11.1			
SE	2.6	5.1	2.7	.5	*			10.9	12.7	11.5	11.9	10.0	10.2			
S	2.8	4.7	2.5	.4	.1			10.5	12.4	9.9	11.9	11.2	9.0			
SW	2.6	4.9	2.4	.3	*			10.2	12.0	8.4	13.4	10.9	8.1			
W	2.0	4.7	2.3	.2	*			9.3	11.3	7.7	9.6	10.8	9.1			
NW	2.4	5.2	3.2	.6	*			11.6	13.4	11.0	8.4	11.3	14.8			
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0			
CALM	2.0	2336	1324	252	17		5162	2.0	.0	2.0	1.7	2.2	1.9			
TOT OBS	1243	45.3	25.6	4.9	.3			100.0	12.9	1454	1188	1403	1117			
TOT PCT	23.9	45.3	25.6	4.9	.3			100.0	100.0	100.0	100.0	100.0	100.0			

APRIL

PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1863-1970

AREA 0007 NOBOKA
32.1N 139.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (ONT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
0003	2.0	5.6	36.5	42.0	12.3	1.3	.2	13.1	100.0	1434
0609	1.7	6.8	37.9	37.3	14.8	1.5	.0	13.0	100.0	1188
1215	2.2	6.8	39.6	36.1	14.1	1.0	.1	12.5	100.0	1403
1821	1.9	5.3	38.5	39.5	13.5	1.3	.1	12.8	100.0	1117
TOT	101	316	1967	2002	704	65	7	12.9		5162
PCT	2.0	6.1	38.1	38.8	13.6	1.3	.1		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-10	TOTAL OBS	MEAN CLOUD COVER
N	4.8	2.1	3.5	5.4		4.8
NE	3.2	2.1	3.4	7.5		5.6
E	2.0	1.4	3.1	6.4		5.9
SE	1.6	.8	2.4	4.5		6.0
S	2.1	1.0	3.2	5.5		5.9
SW	2.8	1.6	2.2	4.8		5.2
W	3.5	1.3	2.4	2.1		4.0
NW	4.3	2.0	3.2	2.1		4.0
VAR		.0	.0	.0		.0
CALM	.7	.3	.2	.5		3.8
TOT OBS	298	150	279	463	1190	5.2
TOT PCT	25.0	12.5	23.4	38.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH 34'8)
AND OCCURRENCE OF NH 35'8 WY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH 35'8	TOTAL
	149	299	594	999	1999	3999	6499	7999			ANY HGT	OBS
	.0	.0	.4	.6	2.3	1.4	.3	.1	.2	.1	10.0	
	.2	.2	.2	1.9	3.0	2.0	.4	.1	.2	.0	8.0	
	.3	.0	.5	1.2	2.8	1.7	.6	.1	.1	.2	5.5	
	*	*	.2	1.0	2.1	1.4	*	.0	.2	.1	4.2	
	.1	.1	.5	1.2	2.9	1.0	.3	.0	.2	.1	3.0	
	.1	.1	.3	1.2	1.5	.9	.4	.0	.0	.3	6.5	
	.0	.0	.0	.5	1.4	.8	.2	.0	.0	.1	6.4	
	.0	.0	.2	.5	.9	1.4	.2	.0	.0	.0	8.3	
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	.1	.0	.0	.2	.1	.2	.0	.1	.0	.0	1.1	
	.1	.0	.0	.2	.2	.2	.0	.1	.0	.0	1.1	
	10	4	28	98	202	128	31	5	11	12	58.5	1190
	.8	.3	2.4	8.2	17.0	10.8	2.6	.4	.9	1.0	58.5	100.0

PERIOD: (PRIMARY) 1955-1970
(OVER-ALL) 1863-1970

APRIL

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TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH > 4/8) AND VSBY (NH)

CEILING (FEET)	OR >10	OR >5	OR >2	OR >1	OR >1/2	OR >1/4	OR >50YD	OR >0
OR >6500	1.4	1.9	1.9	1.9	1.9	1.9	1.9	1.9
OR >5000	1.6	2.3	2.4	2.4	2.4	2.4	2.4	2.4
OR >4500	3.2	4.0	4.9	4.9	5.0	5.0	5.0	5.0
OR >4000	7.4	15.3	15.7	15.7	15.8	15.8	15.8	15.8
OR >3500	17.7	30.2	31.7	32.5	32.7	32.7	32.7	32.7
OR >3000	21.2	36.7	39.5	40.6	40.9	40.9	40.9	40.9
OR >2500	21.5	38.2	41.4	42.5	43.1	43.1	43.1	43.1
OR >2000	21.6	38.4	41.7	42.9	43.4	43.5	43.5	43.5
OR >1500	21.7	38.8	42.3	43.6	44.1	44.2	44.2	44.2
OR >1000	21.7	38.8	42.3	43.6	44.1	44.2	44.2	44.2
OR >500	21.7	38.8	42.3	43.6	44.1	44.2	44.2	44.2
OR >0	21.7	38.8	42.3	43.6	44.1	44.2	44.2	44.2
TOTAL	257	460	502	517	524	525	526	526

TOTAL NUMBER OF OBS: 1187

PCT FREQ NH <5/8: 55.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	9	TOTAL OBS
18.2	11.8	10.8	9.0	5.3	6.2	0.6	5.8	23.2	1.0	1266

PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1863-1970

APRIL

AREA 0007 NDBEDKA
32.1N 133.0E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBL (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	.0	.1	.1	.1	.1	.1	.0	.0	.0	.0	.3	
ND PCP	.0	.1	.1	.1	.1	.1	.0	.0	.0	.0	.3	
TOT %	.1	.1	.1	.1	.1	.1	.0	.0	.0	.0	.6	
1/1 <1	.2	.2	.5	.3	.2	.1	.1	.1	.0	.0	1.5	
PCP	.2	.2	.2	.1	.1	.1	.1	.3	.0	.0	1.3	
ND PCP	.3	.4	.6	.4	.3	.3	.2	.3	.0	.0	2.8	
TOT %	.5	.6	.8	.5	.4	.4	.3	.6	.0	.0	4.3	
1 <2	.2	.5	.7	.5	.4	.1	.1	.1	.0	.0	2.5	
PCP	.1	.1	.1	.1	.1	.1	.1	.1	.0	.0	.7	
ND PCP	.3	.6	.8	.6	.5	.2	.1	.2	.0	.0	3.3	
TOT %	.4	.9	.6	.4	.4	.4	.1	.1	.0	.0	3.2	
2 <5	.5	.3	.3	.2	.3	.3	.1	.2	.0	.0	2.2	
PCP	.8	1.2	.9	.5	.7	.7	.2	.3	.0	.1	5.4	
ND PCP	.4	.9	.6	.4	.4	.4	.1	.1	.0	.0	3.2	
TOT %	.8	1.2	.9	.5	.7	.7	.2	.3	.0	.1	5.4	
5 <10	.4	.8	.6	1.0	1.3	.4	.2	.3	.0	.0	5.0	
PCP	3.3	3.9	3.4	2.7	2.5	2.5	2.2	2.3	.0	.5	23.2	
ND PCP	3.6	4.7	4.0	3.7	3.8	2.9	2.4	2.6	.0	.5	28.1	
TOT %	.2	.3	.2	.2	.1	.1	.1	.1	.0	.0	1.3	
10+	10.7	9.4	6.3	5.1	4.6	6.2	6.9	8.3	.0	.0	58.5	
PCP	10.9	9.7	6.5	5.3	4.9	6.3	6.9	8.4	.0	.0	59.8	
ND PCP	10.9	9.7	6.5	5.3	4.9	6.3	6.9	8.4	.0	.0	59.8	
TOT %	16.0	16.7	12.9	10.7	10.3	10.4	9.8	11.7	.0	1.5	100.0	
TOT OBS												4274
TOT PCT												

PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1863-1970

APRIL

AREA 0007 NOBSEOKA
32.1N 133.0E

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.1	*	*	.0	.0	.0	.1	.2	
	4-10	*	.1	*	.1	*	.1	.1	*	.0		.4	
	11-21	.1	*	.1	*	*	*	.0	*	.0		.2	
	22+	*	*	*	.1	*	.0	.0	.0	.0	.1	.2	
	TOT %	.1	.1	.1	.2	.1	.2	.1	*	.0	.1	1.0	
1/2<1	0-3	*	*	.1	*	*	*	.1	.2	.0	.0	.5	
	4-10	.1	.1	.1	.1	.1	.1	.1	*	.0		.6	
	11-21	.1	.1	.1	.1	.1	.1	.1	*	.0		.8	
	22+	.1	.2	.1	.1	.1	.1	.0	.0	.0	.0	.2	
	TOT %	.3	.4	.5	.4	.3	.3	.2	.3	.0	.0	2.7	
1<2	0-3	.0	.0	.0	*	*	*	.0	.0	.0	*	.1	
	4-10	.1	.2	.3	.1	.2	.2	.1	.1	.0		1.0	
	11-21	.1	.3	.3	.3	.3	.2	.1	.1	.0		1.7	
	22+	.2	.3	.4	.3	.2	.1	.0	*	.0	*	1.3	
	TOT %	.4	.7	.8	.7	.7	.4	.2	.2	.0	*	4.1	
2<5	0-3	.1	.1	*	.1	*	.1	*	.0	.0	.1	.5	
	4-10	.4	.6	.4	.4	.5	.3	.1	.2	.0		2.9	
	11-21	.4	.6	.4	.4	.5	.2	.1	.1	.0		3.3	
	22+	.3	.4	.4	.2	.1	.2	*	.1	.0	.1	1.7	
	TOT %	1.2	1.7	1.5	1.1	1.1	1.0	.3	.5	.0	.1	8.4	
5<10	0-3	.1	.2	.3	.2	.2	.1	.2	.1	.0	.5	1.9	
	4-10	1.2	1.6	1.2	1.4	1.4	1.3	.8	1.0	.0		9.7	
	11-21	1.4	1.9	1.5	1.5	1.5	1.0	1.0	.9	.0		10.6	
	22+	.6	.7	.8	.6	.7	.4	.2	.5	.0		4.5	
	TOT %	3.4	4.4	3.7	3.6	3.7	2.4	2.2	2.5	.0	.5	26.7	
10+	0-3	.6	.4	.3	.4	.5	.5	.3	.3	.0	.9	4.3	
	4-10	3.7	3.8	2.8	2.3	2.5	2.8	2.9	2.9	.0		23.8	
	11-21	4.4	4.3	2.5	2.0	1.4	2.2	2.4	3.6	.0		23.8	
	22+	1.5	1.1	.5	.2	.3	.5	1.0	1.1	.0	.9	8.1	
	TOT %	10.2	9.6	6.2	4.9	4.7	5.9	6.7	8.0	.0	.9	57.1	
TOT OBS													4776
TOT PCT		15.6	16.9	12.9	10.9	10.7	10.6	9.5	11.3	.0	1.5	100.0	

PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1863-1970

APRIL

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	1.2	.0	4.0	7.9	20.1	11.3	2.4	.0	.9	.9	48.8	51.2	328
06009	.0	.6	1.7	8.7	17.3	6.4	2.0	.3	.6	.6	38.2	61.8	346
12015	1.1	.4	2.2	5.5	11.8	11.0	3.3	1.5	1.1	.7	38.6	61.4	272
18021	1.1	.4	1.1	9.6	15.7	13.9	2.5	.0	1.1	1.8	47.0	53.0	281
TOT	10	4	28	98	202	128	31	5	11	12	529	698	1227
PCT	.8	.3	2.3	8.0	16.5	10.4	2.5	.4	.9	1.0	43.1	56.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<3	5<10	10+	TOTAL OBS
00003	.0	.3	1.9	5.6	23.2	69.0	319
06009	.0	.9	1.5	4.2	26.1	67.4	337
12015	.8	.8	.8	5.0	32.7	60.0	260
18021	.0	1.1	.7	4.4	31.4	62.4	274
TOT	2	9	15	57	333	774	1190
PCT	.2	.8	1.3	4.8	28.0	65.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	1.3	5.0	17.6	32.6	49.8	319
06009	.3	2.7	13.6	26.4	59.9	337
12015	2.3	5.4	15.4	27.7	56.9	260
18021	1.1	3.3	15.7	34.3	50.0	274
TOT	14	48	185	379	646	1190
PCT	1.2	4.0	15.3	30.2	54.3	100.0

APRIL

PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1863-1970

AREA 0007 NOBEOKA
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TABLE 13

		PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										
TEMP F		0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100			
80/84	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0		
75/79	.0	.0	.0	.7	.3	.3	.9	.0	.0	.0		
70/74	.0	.3	.3	1.2	2.0	2.0	3.1	6.3	5.0	.3		
65/69	.0	.1	1.1	3.5	5.5	5.5	9.1	11.3	8.4	.0		
60/64	.0	.1	1.4	4.0	5.8	5.8	5.8	3.5	3.9	.0		
55/59	.0	.0	1.0	2.5	2.7	2.7	3.0	1.3	1.2	.0		
50/54	.0	.0	.2	.7	.5	.5	.5	.3	.6	.0		
45/49	.0	.0	.0	.0	.0	.0	.2	.2	.1	.0		
40/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
TOTAL	0	5	4.5	14.5	19.5	19.5	26.4	27.0	23.2	.0		
PCT	.0	.4	4.0	12.5	16.9	16.9	22.8	23.3	20.1			

TABLE 14

		PERCENT FREQUENCY OF WIND DIRECTION BY TEMP										VAR	CALM
TEMP F		N	NE	E	SE	S	SW	W	NW				
80/84	.0	.0	.0	.0	.0	.1	*	.0	.0	.0	.0	.0	.0
75/79	.4	.2	.3	.3	.1	.3	.8	.3	.1	.0	.0	.0	.2
70/74	1.4	1.4	2.3	2.5	3.7	4.6	1.8	.8	.0	.0	.0	.0	.3
65/69	3.8	5.7	6.5	6.6	5.7	4.3	2.9	2.9	.0	.0	.0	.0	.6
60/64	5.2	5.4	3.9	1.7	1.0	1.5	2.5	3.0	.0	.0	.0	.0	.3
55/59	4.1	2.6	.6	.2	.2	.1	.9	2.7	.0	.0	.0	.0	.3
50/54	.9	.6	.2	.0	.1	.2	.2	.7	.0	.0	.0	.0	.0
45/49	.0	.1	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0
40/44	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
TOTAL	15.9	15.9	13.9	11.1	11.1	11.4	8.5	10.5	.0	.0	.0	.0	1.7

TABLE 15

		MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR										TOTAL OBS
HOURL (GMT)	MAX	99%	95%	50%	50%	1%	MIN	MEAN				
0003	82	77	73	64	54	50	43	64.3	1388			
0609	80	77	72	64	54	50	45	64.3	1183			
1215	81	76	72	64	52	46	43	63.0	1397			
1821	81	72	70	63	52	46	43	61.7	1122			
TOT	82	76	72	64	54	48	43	63.4	5090			

TABLE 16

		PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR										TOTAL OBS
HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN			
0003	.0	16.0	20.1	18.5	21.7	23.6	23.6	23.6	76	313		
0609	.0	20.3	15.3	27.3	22.3	14.7	73	300				
1215	.0	17.0	13.1	23.0	27.6	19.4	76	283				
1821	.0	13.9	19.1	22.1	22.8	22.1	76	267				
TOT	0	196	197	264	274	232	75	1163				

PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1863-1970

APRIL

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	41	45	49	53	57	61	65	69	73	77	81	TOT	W FOG	WD FOG
12/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.0
11/13	.0	.0	.0	.0	.0	.2	.1	.1	.2	.3	.1	36	.1	.6
9/10	.0	.0	.0	.0	.0	.1	.1	.1	.4	.2	.0	37	.0	.9
7/8	.0	.0	.0	.0	.0	.0	.3	.3	.3	.2	.0	59	.1	1.4
6	.0	.0	.0	.0	.0	.0	.0	.1	.2	.1	.0	18	.0	.4
5	.0	.0	.0	.0	.1	.6	.4	.9	.5	.0	.0	104	.2	2.4
4	.0	.0	.0	.0	.2	.8	1.0	1.3	.4	.0	.0	157	.1	3.8
3	.0	.0	.0	.0	.0	.1	.2	1.3	.2	.0	.0	37	.0	.9
2	.0	.1	.0	.4	.4	2.2	3.2	1.6	.3	.0	.0	333	.4	7.8
1	.0	.0	.0	.1	.0	.2	.8	.7	.5	.0	.0	95	.0	2.3
0	.0	.1	.0	.5	.6	6.7	4.3	1.9	.5	.0	.0	599	.8	14.0
-1	.0	.0	.0	.1	.0	.6	1.6	.9	.1	.0	.0	137	.1	3.3
-2	.0	.0	.2	.6	1.2	7.5	3.3	1.4	.1	.0	.0	589	.8	13.7
-3	.0	.0	.0	.0	.2	.5	1.2	.8	.0	.0	.0	12	.1	2.6
-4	.0	.0	.2	.7	2.3	5.5	2.9	.7	.1	.0	.0	506	.4	12.0
-5	.0	.0	.4	1.1	2.2	3.3	1.6	.2	.1	.0	.0	303	.2	8.7
-6	.0	.0	.0	.0	.4	.8	.9	.1	.0	.0	.0	58	.1	2.3
-7/-8	.0	.1	.3	1.9	2.1	2.8	1.2	.1	.0	.0	.0	345	.1	8.4
-9/-10	.0	.1	.4	1.6	1.5	1.2	.3	.1	.0	.0	.0	201	.1	5.0
-11/-13	.0	.3	1.1	1.2	.4	.4	.1	.0	.0	.0	.0	171	.0	4.2
-14/-16	.0	.1	.2	.4	.2	.0	.0	.0	.0	.0	.0	44	.0	1.1
-17/-19	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	7	.0	.2
-20/-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	.0	.1
TOTAL	4	39	123	355	522	1379	960	473	161	41	4	4061	153	3908
PCT	.1	.9	3.0	8.7	12.9	34.0	23.6	11.6	4.0	1.0	.1	100.0	3.8	96.2

PERIOD: (OVER-ALL) 1963-1970 APRIL AREA 0007 NOBEDKA
 32.1N 133.0E

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.1	.0	.0	.0	.0	1.6	.0	.4	.0	.0	.0	.0	.4
1-2	.0	3.1	.3	.0	.0	.0	3.5	.5	1.7	1.7	.0	.0	.0	3.8
3-4	.0	1.8	2.7	.4	.0	.0	4.9	.0	.9	3.9	.1	.0	.0	4.8
5-6	.0	.2	2.7	.5	.0	.0	3.3	.0	.0	3.4	.9	.0	.0	4.3
7	.0	.2	.6	.4	.4	.0	1.6	.0	.0	1.0	.7	.1	.0	1.8
8-9	.0	.2	.0	.2	.0	.0	.4	.0	.1	.7	.4	.0	.1	1.2
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	1.1	.0	.2	1.4
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.3	.0	.5
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	6.7	6.3	1.7	.4	.0	15.4	.5	3.0	10.6	3.6	.3	.3	18.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2	.2	.4	.0	.0	.0	.0	.6
1-2	.2	2.4	2.0	.0	.0	.0	4.6	.0	2.0	1.2	.0	.0	.0	3.2
3-4	.0	2.1	2.4	.4	.0	.0	4.9	.0	1.1	1.2	.0	.0	.0	2.3
5-6	.0	.2	1.8	.2	.0	.0	2.2	.0	.1	1.6	.3	.0	.0	1.9
7	.0	.0	.4	.8	.2	.0	1.4	.0	.2	.5	.3	.0	.0	1.1
8-9	.0	.0	.2	.7	.0	.0	1.1	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.2	.2	.9	.0	.0	1.4	.0	.0	.0	.0	.5	.0	.5
12	.0	.0	.0	.4	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.1	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	5.1	7.1	3.6	.4	.3	16.7	.2	3.8	4.7	1.0	.5	.0	10.1

PERIOD: (OVER-ALL) 1963-1970 APRIL AREA 0007 NOBEOKA 32.1N 133.0E

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.0	.0	.0	.0	.0	1.2	.3	.6	.0	.0	.0	.0	.9
1-2	.2	2.0	.9	.0	.0	.0	3.0	.3	1.8	1.7	.0	.0	.0	3.7
3-4	.2	1.4	.5	.4	.0	.0	2.4	.0	1.1	1.9	.3	.0	.0	3.3
5-6	.0	.0	.9	.2	.0	.0	1.1	.0	.0	2.1	.7	.0	.0	2.8
7	.0	.0	.2	.0	.0	.0	.2	.0	.5	.0	.2	.0	.0	1.1
8-9	.0	.0	.8	.0	.2	.0	1.0	.0	.0	1.3	.0	.0	.0	1.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.2	.0	.0	.0	.2	.0	.0	.1	.0	.0	.0	.1
13-16	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	4.4	3.4	.8	.2	.0	9.3	.6	3.9	7.5	1.3	.0	.0	13.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.7	.3	.0	.0	.0	.0	1.0
1-2	.0	.9	.5	.0	.0	.0	1.4	.0	2.1	.5	.0	.0	.0	2.6
3-4	.0	.3	1.4	.0	.0	.0	1.8	.0	1.2	1.3	.2	.0	.0	2.7
5-6	.0	.2	.2	.2	.0	.0	.6	.0	.3	.7	.5	.0	.0	1.5
7	.0	.0	.0	.0	.0	.0	.0	.0	.2	1.0	.7	.0	.0	1.9
8-9	.0	.0	.5	.0	.0	.0	.5	.0	.0	.7	.0	.0	.0	.7
10-11	.0	.0	.0	.4	.0	.0	.4	.0	.0	.2	.3	.0	.0	.5
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.5	2.5	.6	.0	.0	4.6	.7	4.1	4.4	1.7	.0	.0	10.8

PERIOD: (OVER-ALL) 1963-1970

APRIL

AREA 0007, NOBEDKA
32.1N 133.0E

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)							TOT OBS
	0-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	3.6	4.1	.0	.0	.0	.0	7.7	
1-2	1.1	15.9	8.6	.0	.0	.0	25.6	
3-4	.2	9.8	15.2	1.8	.0	.0	27.0	
5-6	.0	.9	13.4	3.4	.0	.0	17.7	
7	.0	1.1	4.1	3.2	.7	.0	9.1	
8-9	.0	.2	4.3	1.4	.2	.2	6.3	
10-11	.0	.2	.5	2.9	.5	.2	4.3	
12	.0	.0	.2	.5	.0	.2	.9	
13-16	.0	.0	.0	.5	.5	.0	.9	
17-19	.0	.0	.0	.2	.0	.0	.2	
20-22	.0	.0	.0	.2	.0	.0	.2	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.0	32.2	46.3	14.1	1.8	.7	100.0	
							441	

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)																			TOTAL	87+						MEAN HGT
	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86									
<6	2.3	11.7	16.4	8.1	2.5	1.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	406	3		
6-7	.0	1.6	7.8	8.5	5.4	2.8	1.4	.8	.3	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	288	6		
8-9	.0	.3	1.4	2.0	2.9	2.2	1.7	.1	.1	.0	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	105	7		
10-11	.0	.5	.4	.5	.7	.5	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	30	7		
12-13	.0	.0	.3	.1	.4	.2	.1	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	8		
>13	.0	.0	.0	.0	.0	.1	.1	.0	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	13		
INDET	4.3	1.3	2.8	.4	.5	.4	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	95	2		
TOTAL	63	143	275	185	127	73	39	15	15	3	4	0	2	0	0	0	0	0	0	0	0	0	0	944	5		
PCT	6.7	15.1	29.1	19.6	13.5	7.7	4.1	1.6	1.6	.3	.4	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0			

PERIOD: (FEBRUARY) 1933-1970
(OVER-ALL) 1863-1970

MAY

AREA 0007 NOBEOKA
32.1N 133.0E

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT 08 TIME	TOTAL PCPN OBS	THOR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				FRZG PCPN	SNOW PCPN	OTH+K PCPN					FOG WD	SMOKE HAZE	DUST BLWG SNOW	NO WEA		
N	.8	*	.2	.0	.0	.0	.0	1.0		.0	.4	.1	.0	10.3		
NE	1.4	*	.4	.0	.0	.0	.0	1.9		*	.5	.1	.0	13.7		
E	2.0	.1	.4	.0	.0	.0	.0	2.6		.0	.3	.1	.0	11.4		
SE	1.6	.2	.4	.0	.0	.0	.0	2.0		.0	.3	.1	.0	8.7		
S	1.5	.1	.2	.0	.0	.0	.0	2.2		*	.4	.2	.0	6.3		
SW	1.2	.1	.2	.0	.0	.0	.0	1.5		.1	.4	.3	.0	10.6		
W	.4	*	.1	.0	.0	.0	.0	.6		*	.5	.1	.0	9.6		
NW	.3	*	.1	.0	.0	.0	.0	.5		*	.5	.1	.0	9.0		
VAR	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0		
CALM	.1	.0	.0	.0	.0	.0	.0	.1		.0	.0	.1	.0	.0		
TOT OBS	408	29	85	.0	.0	.0	.1		522	.0	.148	.43	.0	3529	4232	
TOT PCT	9.6	.7	2.0	*	.0	.0	"	12.3		.3	.35	1.0	.0	83.0		

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT 08 TIME	TOTAL PCPN OBS	THOR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				FRZG PCPN	SNOW PCPN	OTHER PCPN					FG WD	SMOKE HAZE	DUST BLWG SNOW	NO WEA		
0003	9.4	1.1	1.1	.1	.0	.0	.1	11.0		.1		3.1	1.4	.0	83.7	
0609	10.4	.8	2.2	.0	.0	.0	.0	13.1		.0		3.2	1.0	.0	82.7	
12015	7.7	.3	2.4	.0	.0	.0	.0	10.4		.5		3.6	1.1	.0	84.3	
18021	11.2	.4	2.6	.0	.0	.0	.0	14.2	529	.5		4.1	.5	.0	80.8	4294
TOT	412	29	88	1	0	0	1	12.3		12		150	44	0	3562	
PCT	9.6	.7	2.0	*	.0	.0	*			.3		3.5	1.0	.0	83.0	

MAY

PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1863-1970

TABLE 3

AREA 0007 NDREOKA
12.1N 139.0E

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)				
	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15
N	1.2	5.7	4.0	1.0	*	*	11.9	10.9	14.3	13.3	10.3	7.6	10.0	10.9	10.9
NE	1.5	7.5	5.6	1.5	.1	.0	16.1	11.3	18.5	16.8	17.4	12.5	13.5	13.5	13.5
E	1.2	6.2	5.7	1.4	.1	*	14.5	12.1	16.9	16.3	15.8	13.1	14.6	12.1	12.1
SE	1.1	5.3	4.1	.8	.1	*	11.5	11.2	12.8	11.1	12.9	13.7	11.0	11.3	11.3
S	1.2	5.2	3.7	.9	.1	*	11.2	11.2	8.5	10.1	11.6	15.1	12.6	12.6	12.6
SW	1.4	6.5	3.8	.9	.1	.0	12.7	10.6	8.5	11.2	13.9	17.5	15.0	15.0	15.0
W	1.2	5.0	3.1	.7	.1	.0	10.1	10.4	9.1	9.5	8.3	11.1	10.4	10.7	10.6
NW	.9	4.7	3.4	.6	.1	*	9.6	10.7	10.1	9.6	6.9	8.4	7.8	11.1	10.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.4	23.9	17.8	3.8	3.9	5	51.3	10.8	1.1	1.8	2.5	2.0	3.5	3.2	3.2
TOT OBS	62.4	43.9	33.5	7.7	.8	.1	100.0	100.0	553	890	479	660	542	874	452
TOT PCT	12.1	8.2	6.3	1.4	.1	.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18
N	3.5	6.0	2.1	.3	*	11.9	11.9	10.9	13.9	13.9	8.9	10.6	14.1	14.1	14.1
NE	4.7	7.8	3.1	.5	.0	16.1	16.1	11.3	17.4	17.4	14.6	15.1	17.3	17.3	17.3
E	3.8	6.9	3.3	.5	.1	14.5	14.5	12.1	16.7	16.7	14.2	13.0	13.9	13.9	13.9
SE	3.7	5.3	2.2	.3	*	11.5	11.5	11.2	11.7	11.7	13.4	11.2	9.5	9.5	9.5
S	3.6	5.2	1.8	.3	*	11.2	11.2	11.2	9.5	9.5	13.0	11.6	11.0	11.0	11.0
SW	4.3	5.8	2.2	.3	*	12.7	12.7	10.6	10.1	10.1	16.0	14.8	10.1	10.1	10.1
W	3.6	4.6	1.6	.2	*	10.1	10.1	10.4	9.4	9.4	9.9	10.6	10.6	10.6	10.6
NW	3.0	5.0	1.4	.2	*	9.6	9.6	10.7	9.8	9.8	7.8	9.8	10.9	10.9	10.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.4	24.7	9.4	1.6	.2	31.3	31.3	10.8	1.5	1.5	2.2	2.2	3.3	3.3	3.3
TOT OBS	168.5	240.7	171.7	2.8	.2	516.3	100.0	10.6	143.3	143.3	113.9	141.6	116.5	116.5	116.5
TOT PCT	32.6	46.6	32.6	.5	.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND SPEED (KNOTS)	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
HOUR CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ
00003	1.5	9.8	35.4	8.7	1.0	.2	11.3	100.0
06009	4.2	10.1	33.6	8.3	.8	.0	11.0	100.0
12015	3.3	9.7	32.9	6.7	.8	.1	10.5	100.0
18021	2.6	9.2	31.6	7.1	.3	.1	10.5	100.0
TOT	124	500	1720	398	39	5	10.8	5163
PCT	4.4	9.7	33.5	7.7	.8	.1	100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-6	OBSCD	MEAN CLOUD COVER	TOTAL OBS
N	3.9	1.3	2.4	4.5		4.8	
NE	4.1	2.0	3.3	7.1		5.2	
E	2.8	1.4	3.2	10.0		6.2	
SE	1.6	1.3	3.0	6.0		6.1	
S	2.2	1.2	2.8	6.5		6.0	
SW	2.8	1.2	2.3	3.8		5.1	
W	2.5	1.6	2.5	2.8		4.6	
NW	3.1	1.1	1.5	2.3		4.1	
VAR	.0	.0	.0	.0		.0	
CALM	.8	.2	.4	.4		3.8	
TOT OBS	287	136	258	523		5.4	1204
TOT PCT	23.8	11.3	21.4	43.4			100.0

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	ANY HGT	TOTAL OBS
N	1.1	.1	.3	.9	1.9	.9	.3	.1	.2	.1	.1	.1	7.1
NE	.2	.1	.2	1.2	4.0	2.0	.3	.1	.0	.1	.1	.1	9.7
E	.3	.0	.6	2.4	3.8	1.7	.3	.1	.0	.4	.4	.4	7.8
SE	.3	.0	.3	1.0	2.7	1.1	.2	.2	.3	.1	.1	.1	5.7
S	.1	.0	.3	1.2	3.2	1.4	.2	.1	.1	.1	.1	.1	7.1
SW	.1	.1	.3	.7	1.3	.7	.2	.2	.2	.2	.2	.2	6.1
W	.2	.0	.0	.6	.9	1.1	.1	.1	.2	.1	.0	.0	6.2
NW	.0	.0	.3	.5	.8	.6	.2	.1	.0	.0	.0	.0	5.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.2	.0	.0	.0	.1	.0	.0	.0	1.3
TOT OBS	17	3	26	107	207	119	22	13	14	16	660	1204	
TOT PCT	1.4	.2	2.2	8.9	17.2	9.9	1.8	1.1	1.2	1.3	54.8	100.0	

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TABLE 7
CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH) > 4/8) AND VSBY (NM)

CEILING (FEET)	OR >10	OR >5	OR >2	OR >1	OR >1/2	OR >1/4	OR >50YD	OR >0
OR >6500	1.7	2.5	2.5	2.5	2.5	2.5	2.5	2.5
OR >5000	2.6	3.5	3.5	3.6	3.6	3.6	3.6	3.6
OR >3500	3.9	5.2	5.3	5.4	5.4	5.4	5.4	5.4
OR >2000	10.0	14.9	15.1	15.2	15.2	15.2	15.2	15.2
OR >1000	18.5	29.8	31.3	32.0	32.0	32.0	32.1	32.1
OR >600	21.3	36.5	39.5	40.7	40.9	40.9	40.9	40.9
OR >300	22.1	38.0	41.4	42.7	42.9	42.9	43.1	43.1
OR >150	22.1	38.2	41.6	42.9	43.2	43.2	43.4	43.4
OR > 0	22.3	38.8	42.4	44.0	44.5	44.5	44.7	44.8
TOTAL	268	467	511	530	536	536	538	539

TOTAL NUMBER OF OBS: 1204

PCT FREQ NH < 3/8: 55.2

TABLE 7A
PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
18.9	9.8	12.0	8.6	5.2	6.1	6.1	6.3	6.4	23.5	1.3	1321

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MAY

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	.0	.1	.1	.0	.1	.1	.1	.1	.0	.0	.2	
NO PCP	.1	.1	.1	.1	.1	.1	.1	.1	.0	.0	.2	
TOT %	.1	.2	.2	.1	.2	.2	.2	.2	.0	.0	.4	
PCP	.2	.1	.1	.1	.1	.3	.1	.1	.0	.0	.9	
NO PCP	.1	.1	.1	.1	.1	.1	.1	.2	.0	.0	.6	
TOT %	.2	.2	.2	.2	.2	.4	.2	.3	.0	.0	1.5	
PCP	.1	.4	.3	.3	.4	.3	.1	.1	.0	.0	1.9	
NO PCP	.1	.1	.1	.1	.1	.1	.1	.1	.0	.1	.6	
TOT %	.2	.5	.4	.4	.5	.4	.2	.2	.0	.1	2.5	
PCP	.3	.4	.6	.6	.6	.2	.2	.1	.0	.1	3.1	
NO PCP	.3	.2	.2	.2	.4	.4	.2	.2	.0	.1	2.2	
TOT %	.6	.6	.8	.8	1.0	.6	.4	.3	.0	.2	5.3	
PCP	.7	.7	1.0	.8	.9	.6	.2	.1	.0	.1	4.6	
NO PCP	2.7	4.5	3.4	2.5	2.8	3.1	2.5	2.1	.0	.4	23.7	
TOT %	2.9	5.2	4.5	3.3	3.6	3.7	2.5	2.2	.0	.4	28.3	
PCP	.2	.1	.4	.2	.2	.1	.1	.2	.0	.1	1.5	
NO PCP	7.6	9.4	7.9	6.4	5.6	7.8	7.5	7.1	.0	1.1	63.5	
TOT %	7.8	9.5	8.3	6.6	5.8	7.9	7.6	7.2	.0	1.2	62.0	
TOT OBS												4249
TOT PCT	11.7	16.2	14.4	11.1	11.1	12.9	10.7	10.1	.0	1.9	100.0	

PERIOD: (PRIMARY) 1933-1970
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MAY

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TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	*	.0	*	*	*	.1	.0	.0	*	.2	
	4-10	*	.1	*	*	.1	.1	.1	*	.0		.4	
	11-21	.0	*	*	*	.1	*	.0	*	.0		.2	
	22+	.0	*	.1	.0	.0	.0	.0	.0	.0		.1	
	TOT %	.1	.1	.1	.1	.1	.1	.1	.1	.0	*	.9	
1/2<1	0-3	*	.1	*	*	.0	.1	.0	.1	.0	.0	.3	
	4-10	.1	.1	*	.1	.1	.1	.1	.1	.0		.9	
	11-21	*	.1	.1	*	.1	.1	*	*	.0		.5	
	22+	*	.1	.1	.0	*	.1	.0	.0	.0		.2	
	TOT %	.2	.3	.2	.2	.2	.4	.1	.2	.0	.0	1.9	
1<2	0-3	*	.1	*	*	*	*	*	*	.0	.1	.4	
	4-10	.1	.3	.3	.1	.1	.1	.1	*	.0		.9	
	11-21	.1	.3	.3	.3	.3	.2	*	*	.0		1.3	
	22+	*	.1	.1	*	.2	*	*	.0	.0		.5	
	TOT %	.3	.7	.6	.5	.6	.4	.2	.1	.0	.1	3.4	
2<5	0-3	.1	.1	*	.1	*	.1	.1	.1	.0	.2	.8	
	4-10	.3	.4	.4	.5	.5	.4	.2	.3	.0		3.0	
	11-21	.3	.3	.5	.6	.6	.4	.2	.1	.0		3.1	
	22+	.1	.2	.3	.2	.3	.1	.1	*	.0		1.2	
	TOT %	.8	1.0	1.2	1.4	1.4	1.0	.6	.5	.0	.2	8.1	
5<10	0-3	.3	.4	.2	.3	.4	.3	.3	.2	.0	.5	2.9	
	4-10	1.4	2.0	1.5	1.2	1.4	1.5	1.0	1.0	.0		10.9	
	11-21	.8	1.8	1.9	1.3	1.2	1.1	.7	.7	.0		9.5	
	22+	.2	.5	.5	.4	.3	.4	.2	.1	.0		2.7	
	TOT %	2.7	4.7	4.1	3.1	3.4	3.4	2.2	2.0	.0	.5	26.0	
10+	0-3	.7	.8	.7	.6	.8	.8	.8	.5	.0	1.3	7.1	
	4-10	3.7	4.7	4.0	3.5	3.1	4.4	3.6	3.4	.0		30.3	
	11-21	2.7	3.1	2.7	2.0	1.6	2.1	2.2	2.5	.0		18.9	
	22+	.6	.6	.4	.2	.1	.4	.5	.6	.0		3.4	
	TOT %	7.8	9.3	7.8	6.4	5.6	7.7	7.1	6.8	.0	1.3	59.7	
TOT OBS													4748
TOT PCT		11.9	16.2	14.0	11.5	11.3	13.0	13.4	9.6	.0	2.2	100.0	

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PERIOD: (PRIMARY) 1933-1970
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TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100				
85/89	.0	.0	.0	.1	.2	.5	.0	.0			1	.1
80/84	.0	.0	.0	.1	.2	.5	.2	.0			11	.9
75/79	.0	.5	.2	1.5	1.6	2.8	2.1	1.7			124	10.4
70/74	.0	.3	1.3	4.2	9.5	13.6	11.5	11.3			616	51.6
65/69	.0	.2	.8	2.2	4.1	6.5	9.1	7.4			360	30.2
60/64	.0	.0	.0	.7	1.2	1.1	1.6	1.5			72	6.0
55/59	.0	.0	.0	.0	.1	.3	.1	.4			9	.8
TOTAL	0	12	27	104	198	295	292	265			1193	100.0
PCT	.0	1.0	2.3	8.7	16.6	24.7	24.5	22.2				

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP										VAR	CALM
N	NE	E	SE	S	SW	W	NW				
.0	.0	.0	.0	.0	.1	.0	.0			.0	.0
.0	.0	.1	.2	.3	.3	.0	.1			.0	.0
.8	1.3	1.8	1.6	1.5	2.1	.8	.3			.0	.3
4.6	6.1	8.2	7.3	6.7	6.9	6.7	4.1			.0	1.0
3.7	6.4	5.1	4.4	2.8	2.2	1.9	3.4			.0	.4
1.4	1.8	.6	.2	.5	.3	.4	.9			.0	.0
.2	.3	.2	.0	.0	.0	.1	.4			.0	.0
10.7	15.7	15.9	13.7	11.8	11.8	9.8	8.8			.0	1.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR										TOTAL OBS
HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN		
00003	88	81	77	70	63	57	55	70.1		1412
06009	85	81	77	70	63	59	52	70.2		1133
12015	84	77	75	69	61	57	52	68.6		1409
18021	84	77	74	68	61	55	52	67.7		1162
TOT	88	79	75	70	62	57	52	69.2		5116

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR										TOTAL OBS
HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN			
00003	.0	12.5	18.6	24.3	21.7	22.9	77			345
06009	.0	14.6	18.9	26.4	23.2	16.8	74			280
12015	.0	11.7	15.7	27.1	24.1	21.4	77			299
18021	.0	9.3	12.5	21.9	28.7	27.6	79			279
TOT	0	145	199	300	292	267	77			1203

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TABLE 17

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PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49	53	57	61	65	69	73	77	81	85	TOT	W FOG	MO FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	#
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	#
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	.0	.1
11/13	.0	.0	.0	.0	.1	.1	.1	.0	.2	.0	24	.0	.5
9/10	.0	.0	.0	.0	.1	.1	.2	.3	.1	.0	39	.0	.9
7/8	.0	.0	.0	.0	.1	.4	.3	.5	.1	.0	61	.1	1.4
6	.0	.0	.0	.0	.0	.1	.2	.1	.0	.0	22	.0	.5
5	.0	.0	.0	.3	.3	.7	1.0	.5	.1	.0	122	.2	3.8
4	.0	.0	.0	.4	1.1	2.2	1.7	.6	.1	.0	249	.3	5.8
3	.0	.0	.0	.0	.1	.5	.7	.2	.0	.0	63	.0	1.5
2	.0	.1	.1	1.2	2.9	4.2	3.0	.4	.0	.0	489	.7	11.3
1	.0	.0	.0	.0	.4	1.5	.9	.2	.0	.0	123	.1	2.9
0	.0	.1	.2	2.4	5.3	7.4	3.0	.3	.0	.0	768	.9	17.9
-1	.0	.0	.0	.1	.9	2.0	1.3	.0	.0	.0	177	.1	4.2
-2	.0	.1	.3	3.7	4.8	6.1	2.2	.1	.0	.0	706	.6	16.7
-3	.0	.0	.3	2.7	3.4	3.7	.8	.0	.0	.0	157	.0	3.8
-4	.0	.0	.2	1.5	2.2	1.9	.4	.0	.0	.0	444	.2	10.7
-5	.0	.1	.3	1.2	.8	.9	.1	.0	.0	.0	259	.1	6.2
-6	.0	.1	.3	1.2	1.7	.8	.1	.0	.0	.0	174	.1	2.1
-7/-8	.0	.0	.0	.7	.6	.3	.0	.0	.0	.0	69	.0	1.7
-9/-10	.0	.0	.0	.3	.1	.0	.0	.0	.0	.0	37	.0	.0
-11/-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	.1
-14/-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
-17/-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
TOTAL	7	29	77	612	1060	1441	678	160	31	3	4080	148	3932
PCT	.2	.7	1.9	15.0	26.0	35.3	16.6	3.4	.8	.1	100.0	3.6	96.4

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TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.8	.0	.0	.0	.0	.8	.0	.4	.1	.0	.0	.0	.4
1-2	.4	2.0	.9	.0	.0	.0	3.3	.0	2.6	2.7	.0	.0	.0	5.4
3-4	.0	.6	1.6	.7	.0	.0	2.9	.0	.9	2.6	.3	.0	.0	3.8
5-6	.0	.3	1.4	.5	.0	.0	2.2	.2	.4	2.4	.5	.0	.0	3.5
7	.0	.2	.6	.5	.0	.0	1.3	.0	.0	1.9	.1	.0	.0	2.0
8-9	.0	.0	.2	.4	.0	.0	.6	.0	.2	.7	.1	.0	.0	.9
10-11	.0	.0	.2	.2	.0	.0	.4	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.8	4.9	2.3	.0	.0	11.4	.2	4.5	10.3	1.2	.2	.0	16.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.3	.4	.0	.0	.0	1.9	.2	.9	.2	.0	.0	.0	1.3
1-2	.6	2.3	1.1	.0	.0	.0	4.0	.1	1.9	1.8	.0	.0	.0	3.7
3-4	.0	.5	4.8	.2	.0	.0	7.5	.0	1.3	2.7	.2	.0	.0	4.1
5-6	.0	.4	2.7	.6	.0	.0	3.6	.0	.7	1.5	.0	.0	.0	2.2
7	.0	.0	1.4	.8	.0	.0	2.2	.0	.0	.6	.4	.0	.0	1.0
8-9	.0	.0	.3	.7	.0	.0	1.0	.0	.0	.6	.5	.2	.0	1.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.1	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	6.5	10.7	2.3	.4	.2	20.8	.3	4.6	7.3	1.6	.3	.0	14.0

PERIOD: (OVER-ALL) 1963-1970 MAY AREA 0007, NODUOKA 32.1N 133.0E
 TABLE 10 PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.8	.0	.0	.0	.0	1.2	.2	.0	.0	.0	.0	.0	.2
1-2	.0	2.2	1.0	.0	.0	.0	3.2	.0	1.7	.6	.0	.0	.0	2.3
3-4	.0	1.5	1.9	.0	.0	.0	3.4	.0	1.3	1.7	.2	.0	.0	3.2
5-6	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7
7	.0	.0	.0	.0	.0	.0	.0	.2	.0	.6	.3	.0	.0	1.1
8-9	.0	.0	.3	.0	.0	.0	.3	.0	.0	.2	.0	.3	.0	.5
10-11	.0	.0	.0	.7	.0	.0	.7	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	4.5	3.5	.7	.0	.0	9.1	.4	2.9	3.8	.8	.3	.0	8.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.7	.0	.0	.0	.0	.7	.0	1.1	.0	.0	.0	.0	1.1
1-2	.0	1.4	1.5	.0	.0	.0	2.9	.0	1.5	.9	.0	.0	.0	2.4
3-4	.0	1.1	2.3	.2	.0	.0	3.6	.2	.4	1.8	.1	.0	.0	2.4
5-6	.0	.2	.5	.0	.0	.0	.7	.0	.3	.9	.1	.0	.0	1.3
7	.0	.0	.6	.9	.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.2	.2	.3	.0	.5	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.2	.2	.2	.0	.0	.6	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.1	.0	.1
17-19	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.6	5.1	1.7	.5	.0	10.9	.2	3.3	3.5	.3	.1	.0	7.4

MAY

AREA 0007 NOBEDKA
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PERIOD: (OVER-ALL) 1963-1970

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)							TOT OBS
	0-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	3.6	5.8	.6	.0	.0	.0	10.0	501
1-2	1.2	15.4	10.4	.0	.0	.0	26.9	
3-4	.2	9.4	19.2	1.8	.0	.0	30.5	
5-6	.2	2.2	10.4	1.6	.0	.0	14.4	
7	.2	.2	5.6	3.0	.0	.0	9.0	
8-9	.0	.2	2.2	1.8	.8	.0	5.0	
10-11	.0	.2	.4	2.0	.0	.0	2.6	
12	.0	.0	.0	.4	.0	.0	.4	
13-16	.0	.0	.0	.0	.4	.0	.4	
17-19	.0	.0	.0	.2	.0	.0	.2	
20-22	.0	.0	.0	.0	.4	.0	.4	
23-25	.0	.0	.0	.0	.0	.2	.2	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.4	33.3	48.7	10.8	1.6	.2	100.0	

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)																			TOTAL	MEAN HGT	
	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+			
<6	1.8	15.1	21.5	6.2	3.7	2.1	.6	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	542	3
6-7	.0	2.0	6.0	6.1	4.8	1.7	1.0	.2	.4	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	237	5
8-9	.0	.1	1.5	2.3	2.6	1.4	.5	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	99	7
10-11	.0	.3	.3	.7	1.2	.2	.5	.0	.4	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	36	8
12-13	.0	.0	.3	.0	.4	.1	.2	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	9
>13	.0	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	9
INDET	3.2	1.4	3.3	1.9	1.6	.3	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	129	3
TOTAL	53	200	349	192	153	61	36	9	12	1	2	1	1	1	0	0	0	0	0	0	1060	4
PCT	5.0	18.9	32.9	17.2	14.4	5.8	3.4	.8	1.1	.1	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	100.0	

JUNE

PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1869-1970AREA 0007 NOBEDKA
32.1N 133.1E

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				FRZG PCPN	FRZG PCPN	SNOW OTHER FRZN PCPN					FGD W0 PCPN	SMOKE HAZE	DUST BLWG	DUST SNOW	NO SIG WEA	
N	.9	.1	.2	.0	.0	.0	.0	1.2	.0	.0	.3	.1	.0	.0	6.6	
NE	1.9	.2	.5	.0	.0	.0	.0	2.5	.0	.0	.2	.1	.0	.0	10.6	
E	2.4	.3	.7	.0	.0	.0	.0	3.4	.0	.0	.3	.1	.0	.0	14.2	
SE	1.8	.3	.3	.0	.0	.0	.0	2.4	.0	.0	.3	.1	.0	.0	8.5	
S	1.7	.3	.4	.1	.0	.0	.0	2.4	.0	.0	.2	.2	.0	.0	10.7	
SW	1.5	.2	.6	.1	.0	.0	.0	2.2	.0	.0	.6	.2	.0	.0	14.6	
W	.7	.1	.3	.0	.0	.0	.0	1.0	.0	.0	.3	.1	.0	.0	7.6	
NW	.5	.1	.2	.0	.0	.0	.0	.8	.0	.0	.1	.1	.0	.0	5.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	*	*	.0	.0	.0	.0	.2	.0	.0	.1	.1	.0	.0	1.6	
TOT OBS	409	59	117	3	0	0	1	584	10	88	39	1	1	2886	3606	
TOT PCT	11.5	1.6	3.2	.1	.0	.0	*	16.2	.3	2.4	1.1		*		80.0	

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				FRZG PCPN	FRZG PCPN	SNOW OTHER FRZN PCPN					FGD W0 PCPN	SMOKE HAZE	DUST BLWG	DUST SNOW	NO SIG WEA	
00003	11.3	2.4	2.7	.1	.0	.0	.0	16.1	.0	.0	2.9	1.0	.0	.0	00.0	
06009	12.5	1.0	3.0	.2	.0	.0	.0	16.6	.0	.0	2.5	1.9	.0	.0	79.0	
12015	10.9	1.5	4.1	.0	.0	.0	.0	16.4	.0	.0	2.4	1.0	.0	.0	79.7	
18021	11.2	1.6	3.2	.0	.0	.0	.0	16.1	.0	.0	2.2	.7	.1	.0	80.4	
TOT	420	61	119	3	0	0	1	599	11	92	43	1	1	2933	3676	
PCT	11.4	1.7	3.2	.1	.0	.0	*	16.3	.3	2.5	1.2		*		79.8	

JUNE

PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1869-1970AREA 0007 NOBEDKA
32.1N 133.1E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+	00	03	06	09				12	15	18	21				
N	.9	4.6	2.0	.4	*	*	11.6	6.6	7.3	4.7	5.4	6.8	8.6	13.0							
NE	1.3	6.5	4.2	1.2	.1	*	14.7	17.6	15.3	11.1	8.9	9.6	10.1	17.6							
E	1.4	8.3	6.1	1.6	.1	*	11.0	21.5	14.5	21.4	10.2	10.1	13.3	17.4							
SE	1.3	6.2	3.1	.8	.1	*	10.0	12.6	10.2	13.2	11.7	12.3	11.0	19.3							
S	1.4	7.2	4.0	.8	.1	*	13.8	11.1	16.9	13.8	14.6	14.3	14.8	11.3							
SW	1.7	8.3	6.9	1.3	*	.0	18.1	16.0	19.6	20.6	23.7	17.7	20.6	13.0							
W	1.0	4.9	2.7	.4	.0	.0	8.9	7.3	7.3	9.8	9.5	11.7	8.9	8.0							
NW	.9	3.4	1.8	.3	.0	.0	9.5	5.0	6.5	4.1	6.4	5.4	7.3	7.8							
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
CALM	2.7	22.4	13.94	31.1	19	.4	2.3	2.4	2.4	1.3	3.6	2.6	5.3	2.4							
TOT OBS	562	49.4	30.8	6.9	.1		475	802	467	550	502	730	415	583							
TOT PCT	12.4						100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0							

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)													
	0-6	7-16	17-27	28-40					00 03	06 09	12 15	18 21										
N	3.2	3.7	.9	.1	*	4524	7.9	9.5	8.5	5.9	6.3	11.2	7.9	9.5	16.5	16.5	13.1	5.9	6.3	11.2	11.2	11.2
NE	4.4	6.4	2.2	.3	.1		13.3	10.9	16.5	13.1	9.3	14.5	13.3	10.9	17.6	17.6	18.2	9.3	9.3	14.5	14.5	14.5
E	4.8	8.5	3.6	.5	.1		17.5	11.5	17.5	11.5	10.2	15.7	17.5	11.5	11.6	11.6	12.0	10.2	10.2	15.7	15.7	15.7
SE	4.5	4.8	1.7	.3	.1		11.4	10.2	11.4	10.2	10.3	12.8	11.4	10.2	12.1	12.1	15.2	12.0	12.0	10.0	10.0	10.0
S	4.6	6.8	1.8	.4	*	4524	13.6	10.3	12.1	15.2	14.4	12.8	13.6	10.3	12.1	12.1	15.2	14.4	14.4	12.8	12.8	12.8
SW	5.1	9.3	3.6	.3	*		18.3	11.1	16.8	20.1	20.1	16.2	18.3	11.1	16.8	16.8	20.1	20.1	16.2	16.2	16.2	16.2
W	3.2	4.4	1.3	.1	.0		9.0	9.8	7.9	8.7	10.2	8.4	9.0	9.8	7.9	7.9	8.7	10.2	8.4	8.4	8.4	8.4
NW	2.6	3.0	.7	.1	.0		6.3	9.2	6.7	5.2	5.8	7.6	6.3	9.2	6.7	6.7	5.2	5.8	7.6	7.6	7.6	7.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.7	21.20	709	96	10	2.7	10.3	2.3	1.8	3.0	3.6	2.7	10.3	2.3	2.3	1.8	3.0	3.0	3.6	3.6	3.6	
TOT OBS	1589	46.9	15.7	2.1	.2	100.0		1277	1017	1232	598	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
TOT PCT	35.1							100.0	100.0	100.0	100.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

JUNE

PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1869-1970

AREA 0007 N0800KA
32.1N 133.1E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT):

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			PCT FREQ	TOTAL OBS
				11-21	22-33	34-47		
0000	2.3	10.1	49.3	29.5	8.2	.4	.2	10.4
0600	1.8	9.3	48.0	33.8	6.6	.5	.0	10.5
1200	3.0	9.8	51.5	28.7	6.4	.5	.1	10.1
1800	3.6	9.6	48.4	32.0	6.0	.3	.1	10.1
TOT	121	441	2334	1394	311	19	4	10.3
PCT	2.7	9.7	49.4	30.8	6.9	.4	.1	100.0

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8	OBS	CD	SCD	TOTAL OBS	MEAN CLOUD COVER
N	1.4	1.0	3.2	3.5					5.7
NE	1.6	1.0	2.8	6.0					6.1
E	1.4	.8	3.5	7.2					6.5
SE	.6	.6	2.5	5.9					6.9
S	2.6	2.0	4.3	8.7					6.0
SW	2.6	2.9	6.3	8.5					6.0
W	2.4	1.1	2.5	3.5					5.2
NW	1.9	1.2	1.8	2.3					5.0
VAR	.0	.0	.0	.0					.0
CALM	.7	.1	.5	1.2					5.2
TOT OBS	171	121	309	528				1129	6.0
TOT PCT	15.1	10.7	27.4	46.8				100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8	OBS	CD	SCD	TOTAL OBS	MEAN CLOUD COVER	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION									
										000	150	300	600	1000	2000	3500	5000	8000+	NH <5/8
N	1.4	1.0	3.2	3.5						.0	.1	.2	.8	1.4	.9	.4	.1	.4	4.7
NE	1.6	1.0	2.8	6.0						.1	.2	.2	1.2	2.5	1.5	.4	.0	.2	4.6
E	1.4	.8	3.5	7.2						.3	.2	.3	1.5	3.2	2.1	.3	.1	.2	4.6
SE	.6	.6	2.5	5.9						.2	.3	.3	.8	2.5	1.6	.3	.2	.0	3.7
S	2.6	2.0	4.3	8.7						.1	.0	.6	1.8	3.3	1.7	.5	.1	.1	9.1
SW	2.6	2.9	6.3	8.5						.1	.1	.9	1.9	4.2	1.4	.5	.4	.5	10.2
W	2.4	1.1	2.5	3.5						.0	.0	.2	.7	1.3	.8	.1	.0	.2	5.9
NW	1.9	1.2	1.8	2.3						.2	.0	.1	.4	1.1	.7	.1	.0	.1	4.6
VAR	.0	.0	.0	.0						.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.7	.1	.5	1.2						.1	.0	.0	.2	.4	.0	.1	.0	.0	1.6
TOT OBS	171	121	309	528				1129	6.0	1.0	.5	.2	9.2	19.8	10.7	2.7	.8	1.1	49.3
TOT PCT	15.1	10.7	27.4	46.8				100.0		1.0	.5	2.9	9.2	19.8	10.7	2.7	.8	1.1	100.0

PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1869-1970

JUNE

AREA 0007 NOBEDKA
32.1N 133.1E

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH > 4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)		OR		OR		OR		OR		OR	
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0	>0	>0	>0	>0
= OR >6500	1.9	2.8	2.9	1.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
= OR >5000	2.3	3.6	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
= OR >3500	4.1	6.2	6.3	6.3	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
= OR >2000	10.2	16.2	17.1	17.2	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3
= OR >1000	19.4	33.4	36.0	36.3	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9
= OR >600	24.2	41.4	45.0	45.6	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3
= OR >300	25.0	43.2	47.7	48.4	49.1	49.2	49.2	49.2	49.2	49.2	49.2	49.2
= OR >150	25.0	43.7	48.1	48.9	49.6	49.7	49.7	49.7	49.7	49.7	49.7	49.7
= OR > 0	25.1	44.1	48.7	49.6	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4
TOTAL	285	500	552	563	571	572	575	575	575	575	575	575

TOTAL NUMBER OF OBS: 1134

PCT FREQ NH <5/8: 49.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
10.6	9.6	12.8	8.0	7.6	6.0	9.4	8.8	27.9	1.2	1219	

PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1869-1970

JUNE

AREA 0007 NOBEOKA
32.1N 133.1E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	.1	.1	.1	.2	.1	.1	*	.1	.0	*	.6	
NO PCP	*	*	*	*	*	*	*	*	.0	.0	.2	
TOT %	.1	.1	.1	.2	.1	.1	*	.1	.0	*	.8	
PCP	.1	.1	.2	.1	.1	.1	.1	*	.0	.0	1.0	
NO PCP	*	*	.1	*	*	.1	.1	.0	.0	*	.4	
TOT %	.1	.2	.3	.1	.2	.2	.2	*	.0	*	1.4	
PCP	.2	.3	.3	.4	.3	.2	.1	.1	.0	*	1.8	
NO PCP	.1	*	.1	.1	.2	.1	*	.0	.0	.0	.6	
TOT %	.2	.3	.5	.5	.5	.3	.1	.1	.0	*	2.4	
PCP	.2	.7	.9	.6	.7	.6	.2	.1	.0	*	4.0	
NO PCP	.1	.2	.3	.1	.4	.5	.2	.1	.0	.1	2.1	
TOT %	.3	.9	1.2	.7	1.1	1.1	.4	.2	.0	.1	6.0	
PCP	.7	1.1	1.5	1.0	1.0	1.0	.4	.4	.0	.1	7.0	
NO PCP	1.7	3.3	4.4	2.4	3.0	5.1	2.8	1.4	.0	.5	24.7	
TOT %	2.4	4.4	5.9	3.4	4.0	6.1	3.2	1.8	.0	.6	31.7	
PCP	.1	.2	.4	.3	.3	.3	.3	.1	.0	*	1.9	
NO PCP	5.0	7.2	9.7	6.3	7.6	9.7	4.9	4.3	.0	1.2	55.8	
TOT %	5.1	7.4	10.1	6.5	7.8	10.0	5.1	4.3	.0	1.2	57.7	
TOT OBS												3605
TOT PCT	8.2	13.4	18.1	11.4	13.6	17.7	9.1	6.5	.0	2.0	100.0	

PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1869-1970

JUNE

AREA 0007 NOBEDKA
32.1N 133.1E

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	*	*	*	*	.0	*	*	.0	*	.2	
	4-10	.1	.1	*	.1	.1	.1	*	.1	.0		.6	
	11-21	*	*	*	*	*	.1	*	*	.0		.3	
	22+	.0	*	*	*	.0	.0	.0	.0	.0		.1	
	TOT %	.1	.2	.1	.3	.1	.2	.1	.1	.0	*	1.3	
1/2<1	0-3	.0	.0	*	.0	.0	*	*	*	.0	*	.2	
	4-10	*	*	.1	.1	.1	.1	.1	.0	.0		.5	
	11-21	*	.1	.2	*	.1	.1	*	*	.0		.6	
	22+	*	*	*	*	.1	*	*	.0	.0	*	.2	
	TOT %	.1	.2	.3	.1	.3	.2	.2	*	.0	*	1.6	
1<2	0-3	*	.1	*	*	*	.1	*	*	.0	*	.4	
	4-10	.1	.2	.2	.2	.1	.3	.2	.1	.0		1.4	
	11-21	.1	.2	.1	.2	.3	.2	.0	*	.0		1.2	
	22+	*	*	.1	.1	.1	*	.0	*	.0	*	.5	
	TOT %	.3	.6	.6	.5	.6	.6	.2	.2	.0	*	3.5	
2<5	0-3	.1	.2	*	*	.1	.2	.1	.1	.0	.1	.9	
	4-10	.3	.6	.7	.3	.5	.9	.3	.2	.0		3.8	
	11-21	.1	.5	.4	.4	.4	.8	.3	.0	.0		3.0	
	22+	.1	.2	.3	.2	.3	.2	*	*	.0		1.4	
	TOT %	.6	1.5	1.7	1.0	1.4	1.8	.7	.3	.0	.1	9.1	
5<10	0-3	.2	.3	.4	.3	.3	.4	.3	.3	.0	.7	3.3	
	4-10	1.4	2.0	2.2	1.6	1.7	2.3	1.3	.9	.0		13.3	
	11-21	.5	1.2	2.1	.9	1.3	2.2	1.0	.4	.0		9.6	
	22+	.1	.6	.7	.3	.4	.6	.2	.1	.0		3.0	
	TOT %	2.2	4.1	5.4	3.2	3.7	5.5	2.9	1.6	.0	.7	29.2	
10+	0-3	.6	.8	.7	.8	.7	.9	.4	.4	.0	1.5	6.9	
	4-10	2.7	3.8	5.2	3.8	4.7	4.7	3.0	2.1	.0		30.1	
	11-21	1.3	2.2	3.2	1.5	2.0	3.6	1.3	1.4	.0		16.5	
	22+	.1	.3	.3	.1	.1	.4	.2	.2	.0		1.8	
	TOT %	4.8	7.1	9.4	6.2	7.6	9.7	4.9	4.1	.0	1.5	55.3	
TOT OBS													4076
TOT PCT		8.1	13.6	17.5	11.4	13.7	18.1	8.9	6.3	.0	2.4	100.0	

PERIOD: (PRIMARY) 1963-1970
(OVER-ALL) 1865-1970

JUNE

AREA 0007 NUREKA
32.1N 133.1E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000	150	300	450	600	750	900	1050	1200	1350	1500	1650	1800	1950	2100	2250	2400	TOTAL	NH <5/8 ANY HG1	TOTAL OBS
00003	.7	.7	4.7	13.0	21.1	11.0	1.7	.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	55.5	44.5	299
06009	.6	.3	2.2	9.3	17.9	10.5	3.8	1.0	.6	2.6	48.9	51.1	313	205	264	1171	50.6	100.0		
12015	1.4	.7	.7	5.4	18.3	8.8	2.0	.7	1.0	1.4	42.4	57.6	205	264	1171	50.6	100.0			
18021	1.1	.4	.5	9.1	19.3	11.7	3.0	.8	1.5	2.3	50.8	49.2	264	1171	50.6	100.0				
TOT	11	6	33	108	224	123	31	9	12	21	578	593	1171	50.6	100.0					
PCT	.9	.5	2.8	5.2	19.1	10.5	2.6	.8	1.0	1.8	49.4	50.6	100.0							

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	1.0	1.3	.7	5.4	32.0	59.6	297
06009	.3	.7	1.7	6.7	32.0	58.7	300
12015	.7	.4	.7	6.4	31.4	60.4	283
18021	.4	.4	1.5	5.8	33.2	58.7	259
TOT	7	8	13	69	366	676	1139
PCT	.6	.7	1.1	6.1	32.1	59.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	1.7	8.4	23.2	35.0	41.8	297
06009	1.0	4.0	19.0	33.0	48.0	300
12015	1.4	5.3	16.6	29.0	54.4	283
18021	2.3	4.6	17.8	36.3	45.9	259
TOT	18	64	219	379	541	1139
PCT	1.6	5.6	19.2	33.3	47.5	100.0

JUNE

PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1869-1970

AREA 0007 NDBSUKA
32.1N 133.1E

TABLE 13

		PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL	
TEMP F		0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100			OBS	PCT FREQ
85/89	.0	.0	.0	.0	.0	.2	.3	.0	.0	.0	.0	5	.5
80/84	.0	.0	.0	.1	.2	1.1	1.2	4.6	1.6	.0	.0	91	8.8
75/79	.0	.0	.0	.1	.7	2.9	9.5	11.7	13.1	.0	.0	395	38.0
70/74	.0	.0	.0	.0	.3	5.4	10.2	17.1	11.8	.0	.0	466	44.9
65/69	.0	.0	.0	.0	.0	.3	1.1	1.7	4.0	.0	.0	74	7.1
60/64	.0	.0	.0	.0	.0	.0	.3	.1	.4	.0	.0	8	.8
TOTAL	.0	.0	.0	.2	1.2	9.8	22.5	35.3	31.0	.0	.0	1039	100.0
PCT	.0	.0	.0	.2	1.2	9.8	22.5	35.3	31.0	.0	.0		

TABLE 14

		PERCENT FREQUENCY OF WIND DIRECTION BY TEMP										TOTAL	
TEMP F		N	NE	E	SE	S	SW	W	NW	VAR	CALM	OBS	PCT FREQ
85/89	.0	.0	.0	.0	.1	.2	.2	.0	.0	.0	.0	5	.5
80/84	.0	.0	.0	.6	.6	2.2	3.8	.6	.1	.0	.0	91	8.8
75/79	.0	.0	.0	3.3	4.0	8.4	9.6	3.3	1.9	.0	.0	395	38.0
70/74	.0	.0	.0	7.4	6.3	5.6	4.9	4.7	4.7	.0	.0	466	44.9
65/69	.0	.0	.0	2.1	.6	.5	.2	.2	.7	.0	.0	74	7.1
60/64	.0	.0	.0	.0	.0	.3	.1	.0	.0	.0	.0	8	.8
TOTAL	.0	.0	.0	13.5	11.7	17.2	18.8	9.1	7.4	.0	.0	1039	100.0
PCT	.0	.0	.0	13.5	11.7	17.2	18.8	9.1	7.4	.0	.0		

TABLE 15

		MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR										TOTAL	
HOUR (GMT)		MAX	99%	95%	50%	5%	1%	MIN	MEAN			OBS	PCT FREQ
00003	90	85	82	74	68	64	61	61	74.6	.0	.0	1269	12.2
06009	90	84	82	75	68	64	57	57	74.6	.0	.0	1019	9.8
12015	86	81	79	73	68	63	57	57	73.3	.0	.0	1229	11.9
18021	84	81	79	73	66	64	59	59	72.7	.0	.0	1010	9.8
TOT	90	84	81	73	68	64	57	57	73.8	.0	.0	4527	43.5

TABLE 16

		PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR										TOTAL	
HOUR (GMT)		0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN		OBS	PCT FREQ
00003	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1269	12.2
06009	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1019	9.8
12015	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1229	11.9
18021	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1010	9.8
TOT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4527	43.5

PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1869-1970

JUNE

AREA 0007 NOBEDXA
32.1N 133.1E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	57	61	65	69	73	77	81	85	89	TOT	W FOG	NO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.1	5	*	.1
11/13	.0	.0	.0	.0	.1	.1	.1	.0	.0	13	.0	.4
9/10	.0	.0	.0	.1	.1	.3	.4	.1	.0	35	.0	1.0
7/8	.0	.0	.0	.2	.3	.6	.4	.1	.0	57	.1	1.6
6	.0	.0	.0	*	.3	.2	.2	.1	.0	28	*	.8
5	.0	.0	.1	.3	.5	1.3	.9	.1	.0	118	.1	3.3
4	.0	.1	.2	.7	1.7	2.3	.9	.1	.0	210	.2	5.8
3	.0	.0	*	.1	1.1	.7	.2	.1	.0	76	.1	2.1
2	.0	.2	.6	2.6	5.8	3.9	1.1	.0	.0	496	.5	13.7
1	.0	.0	*	.5	1.6	1.3	.3	.0	.0	130	.1	3.6
0	.0	.3	1.4	6.4	8.9	4.0	.7	.0	.0	769	.7	21.3
-1	.0	.1	1.1	1.6	2.1	1.1	.2	.0	.0	180	.1	5.0
-2	.0	.0	1.4	7.2	6.7	2.1	.2	.0	.0	625	.4	17.5
-3	.0	.0	.2	1.0	2.7	.3	.1	.0	.0	148	.1	4.1
-4	.0	.2	.9	4.3	2.7	.5	.0	.0	.0	302	.1	8.6
-5	.0	.2	.9	1.7	1.2	.2	.0	.0	.0	144	.0	4.1
-6	.0	.1	.2	.9	.4	*	.0	.0	.0	34	*	1.5
-7/-8	.0	.1	.3	.8	.5	.1	.0	.0	.0	61	.0	1.7
-9/-10	.0	.1	.3	.3	*	.0	.0	.0	.0	25	*	.7
-11/-13	.0	.1	.2	.1	*	.0	.0	.0	.0	13	.0	.4
-14/-16	.0	.0	*	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	2	58	250	1003	1290	665	199	19	2	3490	91	3399
PCT	.1	1.7	7.2	28.8	37.0	13.1	5.7	.5	.1	100.0	2.6	97.4

PERIOD: (OVER-ALL) 1963-1970 JUNE AREA 0007 NOBEDKA 32.1N 133.1E

TABLE 18 PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.1	.0	.0	.0	.0	1.3	.0	1.8	.0	.0	.0	.0	1.8
1-2	.0	2.2	.5	.0	.0	.0	2.6	.0	4.2	1.9	.0	.0	.0	3.1
3-4	.0	1.6	.7	.0	.0	.0	2.4	.3	1.6	2.2	.3	.0	.0	4.4
5-6	.0	.2	.0	.0	.0	.0	.2	.0	.3	.3	.0	.0	.0	.5
7	.0	.2	.3	.2	.0	.0	.7	.0	.1	.0	.1	.0	.0	.1
8-9	.0	.0	.0	.5	.0	.0	.5	.0	.0	.6	.3	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.0	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.6	.1	.0	.7
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	5.3	1.5	.7	.2	.0	7.8	.3	8.1	4.7	1.3	.1	.0	14.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.7	.0	.0	.0	.0	.7	.0	.5	.0	.0	.0	.0	.5
1-2	.0	3.0	1.0	.5	.0	.0	4.0	.3	2.5	.9	.0	.0	.0	3.7
3-4	.0	1.6	3.0	.5	.0	.0	5.0	.1	1.7	1.6	.3	.0	.0	3.7
5-6	.0	.0	.8	.5	.0	.0	1.3	.0	.3	1.5	.3	.0	.0	2.0
7	.0	.0	.7	.5	.0	.0	1.3	.0	.0	.6	.3	.0	.0	.9
8-9	.0	.3	.0	.0	.0	.0	.3	.0	.0	.3	.0	.1	.0	.3
10-11	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.8	5.5	1.7	.0	.0	13.0	.3	5.0	4.6	.9	.1	.0	11.1

PERIOD: (OVER-ALL) 1963-1970 JUNE AREA 0007 NOBEDKA 32.1N 133.1E

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	2.4	.3	.0	.0	.0	3.0	.5	.5	.0	.0	.0	.0	1.1
1-2	.3	3.8	2.6	.0	.0	.0	6.7	.0	3.9	.7	.0	.0	.0	4.6
3-4	.2	3.6	2.4	.0	.0	.0	6.3	.0	.0	3.3	.0	.0	.0	4.2
5-6	.0	.0	2.0	.2	.5	.0	2.8	.0	.3	1.5	.9	.0	.0	2.7
7	.0	.3	.9	.5	.0	.0	1.6	.0	.3	1.8	.9	.0	.0	3.0
8-9	.0	.0	.0	.0	.2	.0	.2	.0	.0	.3	.3	.0	.0	.5
10-11	.0	.0	.0	.8	.0	.3	1.1	.0	.0	.3	.5	.0	.0	.8
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	10.1	8.2	1.5	.7	.3	21.5	.5	6.0	7.8	2.5	.0	.0	16.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.0	.0	.0	.0	.5	.0	.3	.0	.0	.0	.0	.3
1-2	.0	1.3	.5	.0	.0	.0	1.8	.3	1.5	.0	.0	.0	.0	1.8
3-4	.0	1.6	1.0	.0	.0	.0	2.6	.0	.0	.3	.0	.0	.0	1.7
5-6	.0	.7	.0	.0	.0	.0	.7	.0	.6	1.1	.0	.0	.0	1.6
7	.0	.2	.3	.3	.0	.0	.7	.0	.0	.0	.3	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.4	1.8	.3	.0	.0	6.4	.3	3.4	2.1	.8	.0	.0	6.5

JUNE

AREA 0007 NOBEOKA
32.1N 133.1E

PERIOD: (OVER-ALL) 1963-1970

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)							TOT OBS
	0-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	5.6	7.9	.3	.0	.0	.0	13.8	
1-2	.8	21.8	7.9	.0	.0	.0	30.5	
3-4	.8	13.3	14.6	1.0	.0	.0	29.7	
5-6	.0	2.3	6.9	1.8	.5	.0	11.5	
7	.0	1.0	4.4	2.8	.0	.0	8.2	
8-9	.0	.3	.5	1.3	.3	.0	2.3	
10-11	.0	.3	.8	1.3	.0	.3	2.6	
12	.0	.0	.0	1.0	.3	.0	1.3	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.2	46.9	35.4	9.2	1.0	.3	100.0	
							390	

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.7	16.2	19.9	5.8	2.2	.7	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	467	3
6-7	.1	2.7	6.2	6.8	4.8	1.3	1.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	225	5
8-9	.0	.3	1.5	2.2	1.9	.9	.7	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	82	7
10-11	.0	.0	.4	.5	.6	.4	.5	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28	7
12-13	.0	.0	.2	.1	.1	.2	.1	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	9	8
>13	.0	.0	.0	.2	.2	.0	.4	.0	.2	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	12	12
INDET	5.7	4.5	2.4	.9	.3	.2	.1	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	133	2
TOTAL	86	228	292	158	97	36	30	11	14	0	3	0	1	0	0	0	0	0	0	956	4
PCT	9.0	23.8	30.5	16.5	10.1	3.8	3.1	1.2	1.5	.0	.3	.0	.1	.0	.0	.0	.0	.0	.0	100.0	

JULY

PERIOD (PRIMARY) 1933-1970
(OVER-ALL) 1000-1970AREA 0007 NOBOKA
23.2N 133.1E

TABLE

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			MAIL	PCT FREQ PCPN AT 00 TIME	TOTAL PCPN OBS	THOR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				FRZL PCPN	SNOW PCPN	OTHER PCPN					FGO PCPN	SHRKE HAZE	BLNG SNOW	DUST SLO	NO WEA	
N	3	1	1	0	0	0	0	0	0	0	1	0	0	0	0	3
NE	8	2	2	0	0	0	0	1.1	0	1	2	1	0	0	0	7
E	10	3	3	0	0	0	0	1.0	0	1	3	1	0	0	0	9
SE	10	3	3	0	0	0	0	1.2	0	2	4	1	0	0	0	11
S	10	2	2	0	0	0	0	1.5	0	2	4	3	0	0	0	14
SW	8	2	2	0	0	0	0	1.2	0	2	4	4	0	0	0	16
W	8	1	1	0	0	0	0	1.0	0	0	4	4	0	0	0	23
NW	2	1	1	0	0	0	0	0.5	0	0	2	2	0	0	0	11
VAR	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	3
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOT OBS	102	36	36	0	0	0	0	8	295	25	3	1	0	0	0	319
OUT PCT	91.2	1.5	1.3	0	0	0	0	0.1	0.1	2.7	2.5	1.4	0	0	0	3650

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			MAIL	PCT FREQ PCPN AT 00 TIME	TOTAL PCPN OBS	THOR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				FRZL PCPN	SNOW PCPN	OTHER PCPN					FGO PCPN	SHRKE HAZE	BLNG SNOW	DUST SLO	NO WEA	
0000	6.2	2.2	2.0	0	0	0	0	0.0	0	1	2	1	0	0	0	87
0600	1.0	0	0	0	0	0	0	6.1	0	0	1	1	0	0	0	90
1200	5.2	1.5	1.1	0	0	0	0	7.0	0	0	2	0	0	0	0	87
1800	7.1	1.7	1.5	0	0	0	0	10.1	301	1.7	2	1	0	0	0	323
TOT	107	37	36	0	0	0	0	0	301	26	9	5	0	0	0	3234
PCT	91.3	1.5	1.3	0	0	0	0	0.1	0.1	2.7	2.5	1.4	0	0	0	3650

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JULY

PERIOD: (PRIMARY) 1933-1970
(COVER-ALL) 1000-1970AREA 0007 NOBOKA
32.2°N 133.1E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)					40+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-29	34-47					00	03	06	09	12	15	18	21
N	.0	2.0	1.0	.1	*	*		4.7	8.4	4.7	6.7	2.1	4.4	2.2	3.9	3.1	8.2
NE	1.4	6.0	2.5	.6	.1	*		8.0	9.3	8.0	11.7	7.6	7.7	5.0	10.0	6.1	13.9
E	1.4	6.7	3.5	.6	.1	*		12.1	9.9	12.1	14.9	11.1	13.9	11.2	11.6	8.4	12.5
SE	1.5	7.5	3.1	.5	.1	*		9.1	9.4	12.1	15.0	12.7	13.5	11.1	13.2	13.3	12.0
S	1.0	9.0	4.0	.5	.1	.0		12.1	9.6	12.1	15.1	15.7	21.4	18.5	17.7	18.4	14.1
SW	1.5	12.4	9.5	1.5	*	*		26.8	11.0	26.8	19.9	32.0	24.7	31.3	23.7	27.4	20.2
W	1.0	6.7	3.5	.5	*	.0		15.6	9.3	15.6	10.1	12.3	8.6	14.7	12.8	13.1	10.1
NW	1.7	3.3	.0	*	.0	.0		4.3	7.0	4.3	4.2	2.9	2.4	2.7	3.9	4.8	6.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	3.2	23.9	12.0	1.9	1.7	7	4437	3.2	9.4	3.4	2.5	2.6	3.1	3.1	3.2	5.4	3.0
TOTAL OBS	233							475		475	765	493	573	413	713	404	601
TOTAL PCT	100.0							100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	00	03	HOUR (GMT)					
	0-3	4-10	11-21	22-33	34-47	40+						06	09	12	15	18	21
N	2.4	1.0	1.4	1.2	1.2	1.2	4.7	8.4	5.9	5.9	5.9	3.3	3.3	3.3	3.3	6.1	6.1
NE	4.1	3.0	1.2	1.0	1.2	1.2	9.2	9.3	12.2	12.2	12.2	7.6	7.6	8.2	11.4	10.8	10.8
E	4.5	5.0	1.0	1.0	1.2	1.2	12.7	9.4	12.7	13.8	13.8	12.6	12.6	11.4	12.4	12.5	12.5
SE	5.2	6.0	1.0	1.0	1.2	1.2	16.7	9.6	16.7	14.0	14.0	13.1	13.1	12.4	12.4	12.5	12.5
S	5.0	0.0	4.4	4.4	4.4	4.4	25.0	11.0	25.0	22.6	22.6	19.3	18.0	18.0	15.8	15.8	15.8
SW	7.0	13.3	1.3	1.3	1.1	1.1	12.3	9.3	12.3	13.8	13.8	28.1	26.5	26.5	23.1	23.1	23.1
W	4.0	6.1	1.1	1.1	1.0	1.0	3.9	7.0	3.9	4.2	4.2	10.3	12.7	12.7	11.2	11.2	11.2
NW	2.3	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	3.4	3.4	5.5	5.5	5.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.2	20.1	3.3	3.3	5.2	5.2	3.2	9.4	2.8	2.8	2.8	2.9	2.9	3.2	3.2	4.0	4.0
TOTAL OBS	1742		15.2				4437		1240	1066	1066	1066	1066	1126	1003	1003	1003
TOTAL PCT	100.0		100.0				100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

JULY

PERIOD: (PRIMARY) 1023-1970
(OVER-ALL) 1069-1970

AREA 0007 NOBOKA
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	1.0	11.0	51.0	28.7	4.1	.6	.3	9.6	100.0	1240
0600	2.9	9.1	51.9	31.0	5.0	.2	.0	9.8	100.0	1066
1200	2.2	11.4	54.4	27.1	3.6	.3	.1	9.0	100.0	1126
1800	4.0	11.3	52.0	26.8	4.5	.4	.2	9.2	100.0	1005
TOT	14.2	40.3	239	189	17	7	7	9.4	100.0	4437
PCT	3.2	10.9	52.7	28.4	4.3	.4	.2			

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-10	TOTAL OBS	MEAN CLOUD COVER
N	1.4	1.1	1.0	1.6	5.0	5.0
NE	2.3	2.7	2.0	2.5	4.5	4.5
E	1.7	2.0	4.4	1.6	4.7	4.7
SE	3.2	2.0	5.9	4.2	4.9	4.9
S	6.0	4.7	13.1	7.9	5.1	5.1
SW	4.4	2.7	6.4	2.0	4.6	4.6
W	1.4	1.4	1.1	1.3	4.0	4.0
VAR	1.0	1.0	1.0	1.0	4.0	4.0
CALC	1.2	2.4	1.1	1.6	4.0	4.0
TOT OBS	27.6	22.4	44.7	25.7	120.4	4.0
TOT PCT	22.9	18.6	37.1	21.3	100.0	4.0

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH > 4/8)
AND OCCURRENCE OF NH < 5/8 BY WIND DIRECTION

	0-2	3-4	5-7	8-10	TOTAL OBS	MEAN CLOUD COVER	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT OBS
N	1.4	.8	.6	.6	6	5.0	.0	.0	.1	.3	.2	.1	.#	.0	.0	.0	1.8
NE	1.4	1.1	1.0	.7	4	4.5	.1	.1	.#	.4	.9	.4	.2	.#	.0	.0	2.9
E	2.3	2.7	2.0	2.5	9	4.7	.1	.0	.0	.4	1.1	1.1	.4	.1	.0	.0	6.9
SE	1.7	2.0	4.4	1.6	16	4.9	.0	.0	.1	1.1	1.3	.5	.0	.#	.0	.0	7.6
S	3.2	2.0	5.9	4.2	23	5.3	.1	.#	.2	1.1	2.2	1.4	.1	.0	.1	.1	10.9
SW	6.0	4.7	13.1	7.9	49	5.1	.#	.1	.3	2.1	4.0	2.7	.5	.2	.1	.1	22.4
W	4.4	2.7	6.4	2.0	28	4.6	.1	.1	.1	.6	1.3	.9	.3	.0	.0	.2	12.7
NW	1.4	.4	1.1	.3	5	4.0	.0	.0	.0	.3	.1	.2	.0	.0	.0	.#	2.8
VAR	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALC	1.2	.4	1.1	.6	6	.0	.0	.0	.0	.1	.2	.2	.0	.0	.0	.0	.0
TOT OBS	27.6	22.4	44.7	25.7	1204	4.0	.0	.0	10	76	136	90	19	.4	.2	.7	852
TOT PCT	22.9	18.6	37.1	21.3	100.0	4.0	.3	.3	.8	6.3	11.3	7.5	1.6	.3	.2	.6	70.8

PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1949-1970

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TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)		OR		OR		OR		OR		OR
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0	>0	>0	
OR >6500	.5	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7
OR >5000	1.7	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
OR >3500	1.6	2.6	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
OR >2000	6.2	9.5	10.0	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
OR >1000	12.1	19.6	20.6	21.0	21.0	21.1	21.1	21.1	21.1	21.1	21.1
OR >600	14.0	23.1	26.8	27.3	27.3	27.4	27.4	27.4	27.4	27.4	27.4
OR >300	15.4	25.8	27.5	28.1	28.1	28.2	28.2	28.2	28.2	28.2	28.2
OP >150	15.5	26.0	27.8	28.3	28.3	28.4	28.4	28.4	28.4	28.4	28.4
OR >0	15.7	26.4	28.1	28.7	28.7	28.8	28.8	28.8	28.8	28.8	28.8
TOTAL	189	317	338	345	345	346	347	347	347	347	348

TOTAL NUMBER OF OBS: 1203

PCT FREQ NH <5/8: 71.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	13.2	16.0	21.1	12.5	7.7	6.6	7.4	5.3	9.2	.2	1294

PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1959-1970

JULY

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32.2N 133.1E

TABLF 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	.0	*	*	.0	*	*	.0	.0	.0	.0	.1	
NO PCP	.0	.0	*	.1	*	*	*	.0	.0	*	.2	
TOT %	.0	*	*	.1	.1	*	*	.0	.0	*	.3	
PCP	*	.1	.1	.1	.1	*	*	*	.0	.0	.5	
NO PCP	*	.1	.1	.0	.1	.1	*	*	.0	.1	.4	
TOT %	.1	.1	.2	.1	.1	.1	*	.1	.0	.1	.9	
PCP	.1	.2	.3	.2	.3	.1	.1	.0	.0	.0	1.1	
NO PCP	*	.1	.1	*	*	*	.1	*	.0	*	.4	
TOT %	.1	.2	.4	.3	.3	.1	.1	*	.0	*	1.6	
PCP	.2	.2	.3	.2	.2	.2	.1	.1	.0	*	1.4	
NO PCP	*	.1	.2	.2	.2	.4	.3	*	.0	*	1.5	
TOT %	.2	.3	.5	.4	.4	.6	.4	.1	.0	.1	2.8	
PCP	.2	.5	.7	.3	.5	.7	.4	.1	.0	.1	3.4	
NO PCP	1.0	2.0	2.3	2.5	4.4	6.5	2.6	.8	.0	.5	22.7	
TOT %	1.2	2.5	3.0	2.9	4.9	7.2	3.0	1.0	.0	.6	26.1	
PCP	*	.2	.3	.3	.4	.2	.1	*	.0	*	1.6	
NO PCP	2.9	5.5	7.8	9.0	10.6	17.8	8.3	2.5	.0	1.9	66.8	
TOT %	3.0	5.7	8.0	9.3	11.0	18.0	8.9	2.5	.0	2.0	68.3	
TOT OBS												3658
TOT PCT	4.5	8.8	12.0	13.0	16.8	26.0	12.5	3.7	.0	2.0	100.0	

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JULY

08-100 (OR, HAWAII) 1933-1970
(UW, HAWAII) 1869-1970

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSRY (M4)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT TOTAL OBS
<1/2	0-3	.0	.0	*	.0	.0	.0	.0	.0	.0	.1	.1
	4-10	*	*	*	*	*	.1	*	*	.0	.0	.4
	11-21	*	*	*	*	*	*	*	.0	.0	.0	.1
	22+	.0	.0	.0	.0	*	*	.0	.0	.0	.0	*
	TOT %	.1	*	.1	.1	.1	.1	.1	*	.0	.1	.6
1/2<1	0-3	*	.1	*	*	.0	*	*	.0	.0	.1	.3
	4-10	*	.1	*	.1	.1	.1	*	.0	.0	.0	.4
	11-21	*	.1	.1	.1	.1	.1	.0	.0	.0	.0	.5
	22+	.0	.0	*	.0	*	.0	.0	.0	.0	.0	*
	TOT %	.1	.1	.2	.1	.2	.2	.1	.1	.0	.1	1.2
1/2	0-3	*	.1	.1	.1	.1	*	*	.0	.0	*	.5
	4-10	.1	.2	.2	.2	.1	.1	.2	*	.0	.0	1.1
	11-21	.1	.1	.1	.1	.1	*	.0	*	.0	.0	.4
	22+	.0	.1	.1	.1	.1	.1	.0	.0	.0	.0	.3
	TOT %	.1	.3	.5	.4	.4	.2	.2	*	.0	*	2.3
3/4	0-3	*	.2	.2	*	.1	.1	.1	.1	.0	.2	1.0
	4-10	.3	.5	.5	.4	.5	.5	.3	.1	.0	.0	3.1
	11-21	*	.1	.2	.1	.3	.4	.2	*	.0	.0	1.5
	22+	*	.1	.1	.1	.1	.2	*	.0	.0	.0	.5
	TOT %	.4	.8	1.1	.7	1.0	1.1	.7	.3	.0	.2	6.2
5/4	0-3	.1	.2	.2	.3	.4	.3	.3	.2	.0	.6	2.7
	4-10	.5	1.0	1.3	1.2	2.3	3.0	1.3	.5	.0	.0	11.1
	11-21	.4	.7	.9	.8	1.5	2.9	.9	.1	.0	.0	8.3
	22+	.1	.3	.4	.3	.3	.5	.2	*	.0	.0	2.0
	TOT %	1.1	2.2	2.7	2.6	4.5	6.7	2.8	.9	.0	.6	24.2
10+	0-3	.6	.8	.8	1.0	1.0	1.0	.9	.6	.0	2.0	8.8
	4-10	1.6	3.0	4.6	5.6	6.6	8.7	4.8	1.4	.0	.0	36.5
	11-21	.5	1.5	2.0	2.1	2.7	6.5	2.5	.4	.0	.0	18.2
	22+	.1	.2	.2	.1	.2	.9	.3	.0	.0	.0	2.0
	TOT %	2.9	5.5	7.7	8.8	10.5	17.1	8.5	2.4	.0	2.0	65.5
TOT OBS		4.6	9.0	12.3	12.8	16.7	25.4	12.4	3.7	.0	3.0	100.0
TOT PCT												4099

JULY

PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1862-1970

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	700 11.0	800 200	900 3499	1000 4999	1100 6499	1200 7999	1300 8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.3	7.5	11.0	10.4	2.3	.3	.0	.3	.3	32.0	68.0	347
06009	.6	.6	.3	6.1	11.9	5.3	1.1	.3	.3	.8	.8	27.2	72.8	360
12015	.4	.4	.7	4.3	10.0	4.3	.7	.7	.0	.4	.4	21.7	78.3	281
18021	.3	.3	2.1	5.6	9.4	8.0	1.7	.0	.3	.7	.7	28.6	71.4	287
TOT	4	4	10	76	136	90	19	4	2	7	7	352	923	1275
PCT	.3	.3	.8	6.0	10.7	7.1	1.5	.3	.2	.5	.5	27.6	72.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	< 1/2	1/2 < 1	1 < 2	2 < 5	5 < 10	10+	TOTAL OBS
00003	.0	.3	.9	1.8	21.8	75.2	330
06009	.0	.0	.6	3.6	24.7	70.9	340
12015	.0	.4	.0	2.3	25.8	71.6	264
18021	1.1	.4	.7	2.6	26.4	68.8	269
TOT	3	3	7	32	295	863	1203
PCT	.2	.2	.6	2.7	24.5	71.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH > 4/8) BY HOUR

HOUR (GMT)	< 150 < 50YD	< 600 < 1	< 1000 < 5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	.0	.5	10.3	23.6	66.1	330
06009	.6	1.5	11.2	18.8	70.0	340
12015	.4	1.9	8.3	15.5	76.1	264
18021	.7	3.7	11.9	19.7	68.4	269
TOT	5	22	126	236	841	1203
PCT	.4	1.8	10.5	19.6	69.9	100.0

JULY

PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1869-1970

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TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP °	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	.1	.4	.0	.0	.0	1	.1
90/94	.0	.0	.0	.1	.4	.1	.1	.0	8	.7
85/89	.0	.0	.0	.2	.7	5.7	3.9	.3	129	10.8
80/84	.0	.1	.0	.1	1.1	10.8	33.9	17.3	753	63.3
75/79	.0	.0	.0	.0	.4	3.0	6.1	13.0	269	22.6
70/74	.0	.0	.0	.0	.0	.2	.6	1.7	29	2.4
65/69	.0	.0	.0	.0	.0	.0	.0	.1	1	.1
TOTAL	0	1	0	5	31	235	532	386	1190	100.0
UCL	.0	.1	.0	.4	2.6	19.7	44.7	32.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
95/99	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
90/94	.0	.0	.1	.1	.1	.3	.1	.0	.0	.1
85/89	.2	.9	1.0	1.6	1.1	3.3	1.8	.4	.0	.5
80/84	1.1	2.6	6.5	8.7	10.2	20.3	10.1	1.9	.0	1.9
75/79	.9	1.3	2.0	1.4	4.3	7.6	3.5	.4	.0	1.1
70/74	.1	.3	.7	.1	.1	.4	.1	.3	.0	.2
65/69	.1	.0	.0	.0	.0	.0	.0	*	.0	.0
TOTAL	2.4	5.1	10.3	12.0	15.8	31.8	15.7	3.0	.0	3.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	49%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	90	83	86	81	74	58	62	80.9	1237
0600	95	90	88	82	73	68	64	81.4	1068
1200	88	86	84	80	73	70	63	79.5	1136
1800	88	84	83	79	72	68	64	79.0	1007
TOT	95	88	86	81	73	68	62	80.2	4445

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	.0	.6	.9	1.4	18.4	50.4	29.1	85	347
0600	.0	.0	.9	.7	7.2	31.1	40.9	19.8	82	318
1200	.0	.0	.4	.7	.7	15.3	44.7	38.9	87	275
1800	.0	.0	.0	.8	.8	11.3	41.8	46.0	88	263
TOT	0	0	6	32	235	539	393		85	1205

PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1869-1970

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TABLE 17

PCY FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	61	65	69	73	77	81	85	89	92	TOT	W	WU
	64	68	72	76	80	84	88	92			FOG	FJC
14/16	.0	.0	.0	.0	.0	.0	*	.1	.0	5	.0	.5
11/13	.0	.0	.0	.0	.1	.1	.2	.1	.1	20	.1	.8
9/10	.0	.0	.0	.0	.1	.5	.2	.0	*	29	.0	1.6
7/8	.0	.0	.0	.1	.2	.6	.4	.2	*	58	*	3.4
6	.0	.0	.0	.0	.1	.2	.2	.1	.0	22	.0	7.5
5	.0	.0	.1	.1	.5	1.7	1.0	.2	.1	126	.1	13.2
4	.0	.1	.1	.3	1.9	4.2	1.3	.1	.0	278	.3	2.6
3	.0	.0	.0	.1	.5	1.3	.7	*	.0	95	.1	18.2
2	.0	.0	.3	1.1	4.7	11.6	1.1	.1	.0	670	.7	6.1
1	.0	.2	.4	2.3	8.5	14.2	.6	.0	.0	220	.1	25.6
0	.1	.0	.6	2.6	2.1	3.2	.2	.0	.0	930	.6	6.0
-1	.0	.0	.1	2.0	5.4	5.6	.1	.0	.0	216	.1	13.3
-2	.0	.0	.6	1.2	2.4	1.0	.0	.0	.0	485	.4	2.3
-3	.0	.0	.6	1.2	2.4	1.0	.0	.0	.0	84	*	5.4
-4	.0	.2	.6	1.2	2.4	1.0	.0	.0	.0	192	.1	1.7
-5	.0	.1	.2	.5	.5	.4	.0	.0	.0	60	.0	.5
-6	.0	.0	.1	.2	.1	.1	.0	.0	.0	18	.1	.6
-7/-8	.0	.0	.1	.3	.1	.0	.0	.0	.0	20	.0	.3
-9/-10	.0	.1	.1	.1	*	.0	.0	.0	.0	12	.0	.1
-11/-13	.1	*	.1	.4	.0	.0	.0	.0	.0	5	.0	3453
TOTAL	0	28	91	340	1064	1748	233	29	6	3545	92	97.4
PCT	.2	.8	2.6	9.6	30.0	49.3	6.6	.8	.2	100.0	2.6	

PERIOD: (OVER-ALL) 1963-1970 JULY AREA 0007 NOBETKA 32.2N 139.1E

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

WGT	N										NE										PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT							
<1	.2	.0	.0	.0	.0	.0	.2	.3	1.2	.2	.0	.0	.0	1.7							
1-2	.2	.7	.2	.0	.0	.0	1.1	.0	1.8	.6	.0	.0	.0	2.4							
3-4	.0	.2	.2	.0	.0	.0	.4	.0	.7	.4	.1	.0	.0	1.1							
5-6	.0	.0	.2	.0	.0	.0	.2	.0	.0	.1	.3	.0	.0	.3							
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2							
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
10-11	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.3	.0	.5							
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
13-14	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
15-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
TOT PCT	.4	.9	.5	.0	.2	.0	1.9	.3	3.7	1.3	.8	.3	.0	6.3							

WGT	E										SE										PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT							
<1	.2	1.4	.4	.0	.0	.0	2.2	.6	1.9	.0	.0	.0	.0	2.6							
1-2	.0	2.1	1.0	.0	.0	.0	3.1	.2	2.4	.8	.0	.0	.0	3.3							
3-4	.0	.8	1.0	.2	.0	.0	1.9	.0	.9	1.4	.0	.0	.0	2.5							
5-6	.0	.4	.0	.2	.0	.0	.9	.0	.0	.4	.2	.0	.0	.6							
7	.0	.0	.0	.2	.0	.0	.2	.0	.0	.6	.0	.0	.0	.4							
8-9	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0							
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
TOT PCT	.4	4.7	2.7	.7	.4	.0	8.9	1.0	5.2	3.6	.2	.0	.0	10.0							

PERIOD: (OVER-ALL) 1963-1970

JULY

AREA 0007 NO8EOKA
32.2N 133.1E

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT CL	S										SW										PCT	
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3
1-2	.0	2.0	.0	.0	.0	.0	2.6	.2	1.3	.0	.0	.0	.0	1.5	.0	1.3	.0	.0	.0	.0	1.5	.0
3-4	.0	2.9	1.6	.0	.0	.0	4.7	.1	5.5	4.6	.0	.0	.0	10.2	.0	5.5	4.6	.0	.0	.0	10.2	.0
5-6	.0	1.5	3.5	.0	.0	.0	4.0	.0	2.6	8.9	.9	.0	.0	12.4	.0	2.6	8.9	.9	.0	.0	12.4	.0
7	.0	.2	1.2	.2	.2	.6	1.7	.0	.0	5.8	2.3	.1	.0	8.1	.0	.0	5.8	2.3	.1	.0	8.1	.0
8-9	.0	.2	.4	.4	.2	.0	1.0	.0	.1	2.2	1.4	.1	.0	3.7	.0	.1	2.2	1.4	.1	.0	3.7	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.4	.0	.0	.2	.2	.0	.0	.4	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.4	.0	.0	.4	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-17	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.2	.0	.0	.2	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	6.8	5.7	.6	.3	.0	14.1	.3	9.5	21.7	5.4	.1	.0	37.0	.3	9.5	21.7	5.4	.1	.0	37.0	.3

HGT CL	W										NW										PCT	
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3
1-2	.4	1.2	.4	.0	.0	.0	1.9	.1	.4	.1	.0	.0	.0	.5	.1	.4	.1	.0	.0	.0	.5	.1
3-4	.4	3.4	2.2	.0	.0	.0	5.7	.0	.1	.1	.0	.0	.0	.3	.0	.1	.1	.0	.0	.0	.3	.0
5-6	.0	1.5	3.4	.8	.0	.0	3.7	.0	.0	.3	.2	.0	.0	.8	.0	.0	.3	.2	.0	.0	.8	.0
7	.0	.6	2.4	.8	.0	.0	1.0	.0	.3	.5	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0
8-9	.0	.0	.5	.5	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-31	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-49	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	6.7	8.9	2.3	.0	.0	18.6	.1	.8	.9	.2	.0	.0	2.0	.1	.8	.9	.2	.0	.0	2.0	.1

PERIOD: (OVER-ALL) 196J-1970 JULY AREA 0007 NOBECKA 32.2N 133.1E

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)							TOT OBS
	0-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	4.9	9.3	1.0	.0	.0	.0	15.2	
1-2	1.4	18.6	10.9	.0	.0	.0	31.0	
3-4	.2	8.1	17.8	2.0	.0	.0	28.1	
5-6	.0	1.4	10.7	3.6	.2	.0	16.0	
7	.0	.2	3.6	2.6	.2	.0	6.7	
8-9	.0	.0	.6	.8	.0	.0	1.4	
10-11	.0	.0	.0	.4	.4	.0	.8	
12	.0	.0	.0	.2	.4	.0	.6	
13-16	.0	.0	.0	.2	.0	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-43	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.5	37.7	44.7	9.9	1.2	.0	100.0	
							494	

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	4.0	20.5	18.6	6.1	2.3	.9	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	562	3
6-7	.0	2.4	7.1	7.5	3.9	1.1	.5	.3	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	248	5
8-9	.0	.4	1.1	2.1	1.7	1.1	.8	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	77	6
10-11	.0	.1	.2	.5	.7	.9	.0	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28	7
12-13	.0	.0	.3	.1	.2	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	7
>13	.0	.0	.0	.1	.1	.1	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	9
INQST	6.2	2.6	1.6	1.4	.2	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	132	2
TOTAL	109	177	308	189	96	52	21	6	8	0	0	0	0	0	0	0	0	0	0	1066	4
PCT	10.2	24.0	28.9	17.7	7.0	4.9	2.0	.6	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1864-1970AREA 0007 NOBEOKA
32.1N 133.0E

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT OB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				FRZG PCPN	SNOW PCPN	OTHER FRZN PCPN					FOG PCPN	SMOKE WC	DUST BLWG	NO SNOW	SIG WEA	
N	.2	.1	.1	.0	.0	.0	.0	.4		*	.2	.2	.0	5.6		
NE	.8	.3	.1	.0	.0	.0	.0	1.3		.2	.2	.1	.0	12.5		
E	.9	.4	.1	.0	.0	.0	.0	1.4		.2	.2	.1	.0	16.7		
SE	.7	.5	.1	.0	.0	.0	.0	1.4		.1	.2	.2	*	11.2		
S	.6	.4	.1	.0	.0	.0	.0	1.1		.2	.1	.2	*	11.9		
SW	.3	.2	.1	.0	.0	.0	.0	.7		.2	.1	.2	*	14.8		
W	.1	.1	*	.0	.0	.0	.0	.1		.1	.1	.2	.0	9.0		
NW	.1	.0	*	.0	.0	.0	.0	.2		*	.1	.2	.0	5.6		
VAR	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0		
CALM	.0	.0	.0	.0	.0	.0	.0	.0		*	.1	.1	.0	2.7		
TOT OBS	132	74	25	0	0	0	0	6.4	230	36	46	53	2	3204		3567
TOT PCT	3.7	2.1	.7	.0	.0	.0	.0			1.0	1.3	1.5	.1	89.8		

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT OB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				FRZG PCPN	SNOW PCPN	OTHER FRZN PCPN					FOG PCPN	SMOKE WC	DUST BLWG	NO SNOW	SIG WEA	
0003	3.1	2.0	.6	.0	.0	.0	.0	5.6		.2	1.7	1.6	.0	91.0		
0609	3.1	1.8	.6	.0	.0	.0	.0	5.5		.2	1.1	2.4	.0	90.7		
1215	3.1	2.4	1.2	.0	.0	.0	.0	6.6		1.8	1.3	1.2	.1	89.0		
1821	5.5	2.3	.5	.0	.0	.0	.0	8.2	235	1.8	1.5	.9	.1	87.8		
TOT	134	77	25	0	0	0	0	6.5		36	51	55	2	3253		3628
PCT	3.7	2.1	.7	.0	.0	.0	.0			1.0	1.4	1.5	.1	89.7		

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TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										TOTAL UBS	PCT FREQ	MEAN SPD	CO	03	06	HOUR (GMT)		15	18	21
	0-3	4-10	11-21	22-33	34-47	48+	09	12													
N	1.1	3.6	1.3	.3	*	.0	6.4	8.3	7.0	6.1	5.5	5.0	4.0	5.6	6.6	10.9					
NE	1.4	7.6	3.8	1.3	.2	*	14.3	10.8	10.5	18.9	13.0	10.5	11.4	11.6	13.3	17.5					
E	1.6	8.8	5.3	1.9	.2	.1	18.8	11.7	15.1	20.7	19.5	21.0	21.2	17.9	17.5	17.1					
SE	1.5	7.6	3.3	.8	.1	.1	13.4	10.1	13.2	12.3	15.5	12.0	15.5	14.5	14.8	10.7					
S	1.5	7.1	3.5	.8	.1	.0	12.9	10.2	13.3	11.6	14.4	15.4	14.3	14.2	11.5	9.4					
SW	1.8	9.0	4.4	.5	.0	.0	12.6	9.2	14.3	14.1	18.1	19.9	15.3	16.4	13.2	13.6					
W	1.2	5.3	2.4	.2	*	.0	9.1	5.0	9.5	8.0	6.2	9.1	8.8	10.4	9.1	9.7					
NW	1.1	3.8	.9	.2	*	.0	6.0	7.8	7.1	4.3	5.3	4.4	5.8	6.2	7.2	8.2					
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0					
CALM	3.4	22.6	11.5	26.0	29	7	3.4	9.7	3.9	4.0	2.5	2.5	3.7	3.2	4.7	2.8					
TOT OBS	630	25.8	6.0						484	725	476	517	456	662	429	568					
TOT PCT	14.6	52.7	6.0				100.0	9.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0					

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	HOUR (GMT)					18 21
	0-6	7-16	17-27	28-40						05 09	12 15	18 21			
N	3.3	2.4	.7	.1	.0		6.4	8.3	6.5	5.2	5.0	9.1			
NE	4.9	6.8	1.8	.7	.1		14.3	10.8	17.9	11.7	11.5	15.7			
E	5.4	9.2	3.5	.8	.1		18.8	11.7	18.4	20.3	19.3	17.3			
SE	5.1	6.2	1.6	.5	.1		13.4	10.1	12.7	13.7	14.9	12.5			
S	4.6	6.3	1.6	.3	.1		12.9	10.2	12.3	14.9	14.2	10.3			
SW	5.6	8.4	1.4	.1	.0		15.6	9.2	14.2	19.0	16.0	13.4			
W	3.8	4.4	.8	.1	.0		9.1	9.0	8.6	7.7	9.7	10.3			
NW	3.1	2.5	.3	.1	.0		6.0	7.8	5.4	4.9	6.0	7.8			
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0			
CALM	3.4						3.4	.0	4.0	2.5	3.4	3.6			
TOT OBS	1690	1998	503	114	12	4317		9.7	1209	993	1118	997			
TOT PCT	39.1	46.3	11.7	2.5	.3	100.0	100.0		100.0	100.0	100.0	100.0			

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TABLE 4

HOUR	CALM	PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)				WIND SPEED (KNOTS)			PCT	
		1-3	4-10	11-21	22-33	34-47	48+	MEAN	FREQ	
00503	4.0	11.8	50.0	26.6	6.6	.7	.3	9.8	100.0	
06509	2.5	8.7	54.6	26.9	6.5	.6	.2	10.1	100.0	
12615	3.4	11.8	55.5	23.5	4.9	.8	.0	9.3	100.0	
18621	3.6	12.2	51.1	26.4	6.0	.6	.1	9.6	100.0	
TOT	147	483	2276	1115	266	29	7	9.7		
PCT	3.4	11.2	52.7	25.8	6.0	.7	.2	100.0		

TABLE 5

WIND DIR	PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION							TOTAL OBS
	0-2	3-4	5-7	8-10	11-15	16-20	21-25	
N	2.3	1.4	1.4	.5			3.6	
NE	3.5	3.0	3.5	2.5			4.4	
E	3.7	4.3	7.1	4.2			5.0	
SE	2.7	2.4	4.8	2.6			4.9	
S	4.0	2.8	5.7	2.4			4.6	
SW	5.2	3.9	4.6	2.1			4.0	
W	4.3	1.6	2.2	1.2			3.3	
NW	3.1	1.7	1.1	.6			3.0	
VAR	.0	.0	.0	.0			.0	
CALM	1.4	.7	1.1	.2			3.5	
TOT OBS	370	266	387	199			1222	
TOT PCT	30.3	21.8	31.7	16.3			100.0	

TABLE 6

WIND DIR	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8 AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION												TOTAL OBS
	0-2	3-4	5-7	8-10	11-15	16-20	21-25	26-30	31-35	36-40	41-45	46-50	
N	2.3	1.4	1.4	.5									
NE	3.5	3.0	3.5	2.5									
E	3.7	4.3	7.1	4.2									
SE	2.7	2.4	4.8	2.6									
S	4.0	2.8	5.7	2.4									
SW	5.2	3.9	4.6	2.1									
W	4.3	1.6	2.2	1.2									
NW	3.1	1.7	1.1	.6									
VAR	.0	.0	.0	.0									
CALM	1.4	.7	1.1	.2									
TOT OBS	370	266	387	199									
TOT PCT	30.3	21.8	31.7	16.3									

PERIOD: (PRIMARY) 1933-1970
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TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)				
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2
= OR >6500	.4	.4	.4	.4	.4
= OR >5000	.6	.7	.7	.7	.7
= OR >3500	1.8	2.4	2.4	2.4	2.4
= OR >2000	6.0	8.5	9.1	9.1	9.1
= OR >1000	13.4	18.8	19.7	20.0	20.1
= OR >600	15.2	22.4	24.4	24.6	24.7
= OR >300	15.3	22.7	25.0	25.4	25.4
= OR >150	15.3	22.7	25.0	25.4	25.4
= OR > 0	15.3	22.9	25.3	25.7	25.8
TOTAL	190	281	310	315	316

TOTAL NUMBER OF OBS: 1226

PCT FREQ NH <5/8: 74.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
15.6	16.4	20.5	12.9	8.7	8.1	6.6	4.0	7.0	.2	1286	

PERIOD: (PRIMARY) 1933-1970
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL DBS
PCP	*	*	.0	.0	*	.0	.0	.0	.0	.0	.1	
ND PCP	*	.0	.0	.0	.0	.0	.0	*	.0	.0	*	
TOT %	*	*	.0	.0	*	.0	.0	*	.0	.0	.1	
PCP	.0	.1	.1	.1	*	*	*	*	.0	.0	.4	
ND PCP	.0	.1	.1	*	*	*	*	*	.0	.0	.3	
TOT %	.0	.1	.2	.1	*	*	.1	.1	.0	.0	.6	
PCP	.1	.1	.1	.1	.1	*	*	.1	.0	.0	.6	
ND PCP	.1	.0	.0	.1	*	*	*	.0	.0	*	.3	
TOT %	.2	.2	.1	.2	.1	.1	.1	.1	.0	*	.9	
PCP	.1	.4	.3	.3	.1	.1	.0	.1	.0	.0	1.2	
ND PCP	.1	.2	.3	.3	.1	.2	.1	.1	.0	.0	1.3	
TOT %	.1	.6	.6	.5	.2	.2	.1	.2	.0	.0	2.5	
PCP	.2	.5	.6	.6	.4	.3	.1	.0	.0	.0	2.7	
ND PCP	1.8	3.7	4.6	3.4	3.2	3.1	1.9	1.4	.4	.4	23.3	
TOT %	2.0	4.3	5.2	3.9	3.6	3.4	1.9	1.4	.4	.4	26.0	
PCP	*	.1	.3	.3	.4	.2	*	.0	.0	.0	1.4	
ND PCP	4.1	8.9	12.3	7.9	9.1	12.0	7.4	4.3	.0	2.5	68.4	
TOT %	4.1	9.0	12.6	8.2	9.4	12.3	7.4	4.3	.0	2.5	69.8	
TOT DBS												3565
TOT PCT	6.4	14.2	18.6	13.0	13.4	15.9	9.5	6.1	.0	2.9	100.0	

PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1864-1970

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TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	*	*	.0	.0	*	.0	.0	.0	.0	.1	
	4-10	.1	.1	.1	*	.1	.1	.1	*	.0	.0	.5	
	11-21	.0	.0	.0	.0	*	*	.0	.0	.0	.0	.1	
	22+	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
	TOT %	.1	.1	.1	*	.1	.1	.1	*	.0	.0	.7	
1/2<1	0-3	.0	.0	.0	.0	.0	*	*	.0	.0	*	.1	
	4-10	.0	.1	.1	.1	.0	*	*	.0	.0	.0	.3	
	11-21	.0	.0	.1	.1	*	.0	*	.0	.0	.0	.2	
	22+	.0	.1	.1	*	*	*	.0	.1	.0	.0	.3	
	TOT %	.0	.2	.2	.1	*	.1	.1	.1	.0	.0	.8	
1<2	0-3	.1	.1	*	.0	*	*	.0	.1	.0	*	.3	
	4-10	.1	.1	.1	.1	.1	.1	*	*	.0	.0	.5	
	11-21	*	.1	.1	.1	*	*	*	.0	.0	.0	.4	
	22+	.1	*	.1	.1	.0	.0	*	.0	.0	.0	.3	
	TOT %	.2	.2	.3	.3	.2	.1	.1	.1	.0	*	1.5	
2<5	0-3	.1	.1	.1	.1	.1	.1	*	.1	.0	.1	.7	
	4-10	.2	.4	.4	.3	.2	.2	.1	.1	.0	.0	2.0	
	11-21	.1	.3	.4	.2	.2	.3	.1	.1	.0	.0	1.6	
	22+	.1	.2	.2	.2	.1	*	.0	.0	.0	.0	.9	
	TOT %	.5	1.1	1.2	.7	.6	.6	.2	.3	.0	.1	5.2	
5<10	0-3	.3	.4	.4	.4	.4	.4	.3	.3	.0	.4	3.4	
	4-10	1.0	2.0	1.9	1.8	1.5	1.6	1.0	.8	.0	.0	11.7	
	11-21	.4	1.0	1.6	1.0	.9	.9	.4	.1	.0	.0	6.5	
	22+	*	.4	.9	.4	.4	.2	.1	.1	.0	.0	2.4	
	TOT %	1.8	3.9	4.8	3.6	3.3	3.0	1.8	1.3	.0	.4	24.0	
10+	0-3	.7	.9	1.1	1.0	1.0	1.0	.8	.7	.0	2.7	10.0	
	4-10	2.2	4.9	6.3	5.0	5.5	7.1	4.1	2.7	.0	.0	37.8	
	11-21	.8	2.2	4.0	2.0	2.3	3.3	1.9	.7	.0	.0	11.3	
	22+	.1	.7	.9	.3	.3	.3	.2	.1	.0	.0	2.2	
	TOT %	3.9	8.7	12.3	8.3	9.1	11.8	7.0	4.2	.0	.7	67.9	
TOT OBS		3953											
TOT PCT		6.5	14.2	18.9	13.0	13.3	15.6	9.2	6.0	.0	3.3	100.0	

PERIOD: (PRIMARY) 1943-1970
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.3	6.1	12.2	7.0	2.4	.3	.3	.6	29.4	70.6	327
06009	.0	.0	1.4	3.1	9.9	4.8	1.4	.3	.3	.0	21.3	78.7	352
12015	.3	.0	.7	3.5	10.4	5.9	1.4	.3	.0	.0	22.5	77.5	289
18021	1.0	.0	.3	5.6	9.9	8.3	1.7	.0	.0	.3	27.1	72.9	303
TOT	4	0	9	58	135	82	22	3	2	3	318	953	1271
PCT	.3	.0	.7	4.6	10.6	6.3	1.7	.2	.2	.2	25.0	75.0	100.0

TABLE 11

PERCENT FREQUENCY VS8Y (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.0	.0	3.5	18.4	78.2	316
06009	.0	.0	.9	4.1	15.7	75.3	340
12015	.0	.4	.7	1.4	21.2	76.3	278
18021	.0	.0	.7	5.8	22.3	73.3	292
TOT	0	1	7	40	249	929	1226
PCT	.0	.1	.6	3.3	20.3	75.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS8Y (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 FEET	150-500 FEET	500-1000 FEET	1000-1500 FEET	1500-2000 FEET	2000-2500 FEET	2500-3000 FEET	3000-3500 FEET	3500-4000 FEET	4000-4500 FEET	4500-5000 FEET	5000-5500 FEET	5500-6000 FEET	6000-6500 FEET	6500-7000 FEET	7000-7500 FEET	7500-8000 FEET	8000-8500 FEET	8500-9000 FEET	9000-9500 FEET	9500-10000 FEET	TOTAL OBS
00003	.0	.0	.3	7.3	23.7	69.0	316															
06009	.0	.0	1.5	8.5	15.9	75.6	340															
12015	.4	1.4	5.8	17.6	76.6	278																
18021	1.0	1.4	10.6	17.8	71.6	292																
TOT	4	14	99	230	697	1226																
PCT	.3	1.1	8.1	18.8	73.2	100.0																

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TABLE 13

		PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL	PCT
TEMP F		0-29	-39	40-49	50-59	60-69	70-79	80-89	90-100		OBS	FREQ	
90/94	.0	.0	.0	.0	.2	.8	.6	.2	.1		21	1.8	
85/89	.0	.0	.0	.0	.1	1.7	9.0	6.2	.9		210	17.9	
80/84	.0	.0	.0	.0	.0	1.4	14.4	40.5	15.3		839	71.6	
75/79	.0	.0	.0	.0	.0	.1	.9	2.6	4.6		96	8.2	
70/74	.0	.0	.0	.0	.0	.0	.0	.3	.3		6	.5	
TOTAL	.0	.0	.0	.0	.3	4.6	29.2	58.4	24.7		1172	100.0	
PCT	.0	.0	.0	.0	.5	3.9	24.9	49.8	21.1				

TABLE 14

		PERCENT FREQUENCY OF WIND DIRECTION BY TEMP										VAR	CALM
TEMP F		N	NE	E	SE	S	SW	W	NW				
90/94	.0	.0	.2	.7	.2	.3	.2	.1	.1		.0	.0	.1
85/89	.6	2.5	3.1	2.3	2.9	3.4	1.4	.9			.0	.0	.9
80/84	3.7	8.0	13.6	10.6	10.6	11.7	7.6	4.0			.0	1.9	
75/79	.9	1.7	1.8	.8	.8	.8	.1	1.0			.0	.3	
70/74	.0	.2	.1	.0	.0	.0	.2	.1			.0	.0	
TOTAL	5.2	12.6	19.2	13.9	14.7	16.0	9.4	6.0			.0	3.1	

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR											
HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS		
0000	95	90	87	82	77	75	63	82.5	1193		
0600	97	91	88	83	78	72	64	83.0	990		
1200	91	89	85	81	77	73	66	81.2	1125		
1800	88	86	84	81	75	72	63	80.3	1009		
TOT	97	90	87	82	77	73	63	81.8	4317		

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR										
HOUR (GMT)	0-29	30-59	60-59	70-79	80-89	90-100	MEAN	TOTAL OBS		
0000	.0	.0	3.1	29.3	51.5	16.0	82	324		
0600	.0	1.0	8.9	36.8	42.3	11.0	80	291		
1200	.0	.0	2.4	18.4	52.1	26.7	85	288		
1800	.0	.0	1.4	13.7	53.4	31.5	86	292		
TOT	0	3	47	296	596	253	83	1195		

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	61	65	69	73	77	81	85	89	92	TOT	M FOG	WD FOG
14/16	.0	.0	.0	.0	.0	.1	*	.0	*	4	.0	.1
11/13	.0	.0	.0	.0	.0	.1	.1	.1	.1	12	.0	.4
9/10	.0	.0	.0	.0	.1	.1	.1	.3	*	23	.0	.7
7/8	.0	.0	.0	*	.1	.2	.3	.4	.1	38	.0	1.1
6	.0	.0	.0	.0	.1	.1	.2	.3	.0	24	.0	.7
5	.0	.0	.0	.1	*	1.0	1.1	.4	.0	88	*	2.6
4	.0	.0	.0	.1	.5	3.1	1.7	.2	.0	189	.1	5.5
3	.0	.0	.0	.0	.2	.9	1.4	.1	.0	88	.1	2.5
2	.0	.1	.1	.2	1.3	9.6	2.6	.1	.0	477	.1	13.9
1	.0	.0	*	.4	.6	3.6	1.5	*	.0	195	.1	5.6
0	.0	.0	*	.4	4.6	22.2	1.5	.0	.0	979	.5	28.2
-1	.0	.0	.0	.0	1.3	4.8	.5	.0	.0	226	.1	6.5
-2	*	.0	.1	.7	6.5	11.3	.2	.0	.0	640	.2	18.6
-3	.0	.0	.0	.1	1.2	1.9	.2	.0	.0	116	*	3.4
-4	*	*	.2	.7	3.1	1.7	.0	.0	.0	199	.1	5.8
-5	.0	.0	.1	.3	.9	.5	.0	.0	.0	67	*	1.8
-6	.0	.0	.0	.1	.3	.1	.0	.0	.0	18	.0	.5
-7/-8	*	.0	*	.1	.3	.1	.0	.0	.0	21	.0	.6
-9/-10	.0	.0	.1	.1	*	.0	.0	.0	.0	5	.0	.1
-11/-13	.0	.0	.1	*	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	3	23	98	719	2094	397		60	7	3406	50	3356
PCT	.1	.1	.7	2.9	21.1	61.5	11.7	1.8	.2	100.0	1.5	98.5

PERIOD: (OVER-ALL) 1963-1970 AUGUST AREA 0007 NOBEDKA 32.1N 133.0E

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HG	N				NE				PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	48+	
<1	.3	.6	.2	.0	.0	.0	1.1	.0	2.2
1-2	.0	1.0	.4	.0	.0	.0	1.4	.0	3.4
3-4	.2	.0	.2	.0	.0	.0	.4	.0	2.5
5-6	.0	.0	.2	.0	.0	.0	.2	.0	1.3
7	.0	.0	.0	.0	.0	.0	.0	.0	.9
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.4
12	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	1.5	1.0	.0	.0	.0	3.1	.0	11.1

HG	E				SE				PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	48+	
<1	.7	1.7	.2	.0	.0	.0	2.6	.0	1.3
1-2	.0	2.9	2.5	.0	.0	.0	5.4	.0	4.0
3-4	.0	1.9	3.7	.2	.0	.0	6.0	.0	4.9
5-6	.0	.2	2.0	.6	.0	.0	3.2	.0	2.0
7	.0	.0	1.3	2.7	.0	.0	1.5	.0	1.3
8-9	.0	.0	.4	.2	.0	.0	.7	.0	.4
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.4
12	.0	.0	.0	.2	.0	.0	.2	.0	.2
13-16	.0	.0	.0	.4	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	7.4	11.3	3.9	.0	.0	23.2	.0	15.0

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	2.4	.3	.0	.0	.0	3.4	.3	3.0	.8	.0	.0	.0	4.1
1-2	.6	2.6	.9	.0	.0	.0	4.1	.1	2.3	1.8	.0	.0	.0	4.2
3-4	.0	1.2	2.8	.0	.0	.0	3.9	.0	.6	2.4	.2	.0	.0	3.3
5-6	.0	.2	.9	.7	.2	.0	.0	.0	.2	.9	.8	.0	.0	1.9
7	.0	.2	.4	.0	.2	.0	.8	.0	.2	.3	.4	.0	.0	.9
8-9	.0	.0	.2	.0	.0	.0	.9	.0	.1	.1	.7	.0	.0	.8
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	6.6	5.6	1.8	.4	.0	15.6	.4	6.4	6.2	.2	.0	.0	15.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.8	.2	.0	.0	.0	1.3	.1	1.4	.0	.0	.0	.0	1.4
1-2	.2	2.2	.6	.0	.0	.0	3.0	.7	1.4	.5	.0	.0	.0	2.5
3-4	.0	.7	1.9	.0	.0	.0	2.6	.0	.9	.3	.0	.0	.0	1.2
5-6	.0	.0	1.0	.0	.0	.0	1.0	.0	.0	.3	.0	.0	.0	.3
7	.0	.2	.2	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	3.9	4.0	.0	.0	.0	8.4	.7	3.7	1.3	.2	.0	.0	5.9

AREA 000: NOBESKA
32.1N 133.0E

AUGUST

PERIOD: (OVER-ALL) 1953-1970

TABLE 18 (CONT)

WIND SPEED (KTS) VS SEA HEIGHT (FT)								TOT OBS
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	7.1	11.9	1.7	.0	.0	.0	20.0	
1-2	1.9	17.1	9.3	.0	.0	.0	28.4	
3-4	.6	7.6	15.2	.6	.0	.0	24.2	
5-6	.0	1.7	7.6	2.4	.2	.0	11.9	
7	.0	.9	2.4	3.9	.2	.0	7.4	
8-9	.0	.2	1.7	2.2	.0	.0	4.1	
10-11	.0	.0	.4	1.3	.0	.0	1.9	
12	.0	.0	.0	.4	.2	.0	.6	
13-16	.0	.0	.0	.4	.0	.0	.4	
17-19	.0	.0	.0	.2	.0	.0	.2	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	9.7	39.6	38.3	11.7	.6	.0	100.0	462

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	4.7	16.0	18.6	6.4	1.5	.8	1.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	483	3
6-7	.1	.8	5.8	5.6	2.5	2.4	1.1	.4	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	188	6
8-9	.1	.1	1.4	3.0	1.7	1.6	1.1	.6	.6	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	102	7
10-11	.0	.2	.4	.4	.4	.9	.9	.8	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	49	9
12-13	.0	.0	.2	.1	.0	.1	.4	.1	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	10
>13	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	7	16
INDET	6.7	3.9	1.5	.7	.2	.2	.3	.2	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	137	2
TOTAL	11.4	205	274	159	62	59	50	21	27	3	2	2	0	0	0	0	0	0	0	978	4
PCT	11.7	21.0	28.0	10.3	6.3	6.0	5.1	2.1	2.8	.3	.2	.2	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1936-1970

AREA 0007 NOBEDIA
32.1N 33.0E

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE				HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA						TOTAL OBS
				PCPN	FRZG	SNOW	OTHER					PCPN	FOG	SMOKE	DUST	BLWG	SIG	
N	1.0	.2	.2	.0	.0	.0	.0	.0	1.3		*	.1	.1	.0	.0	.0	15.2	
NE	1.8	.5	.6	.0	.0	.0	.0	.0	2.8		.2	.1	.3	.0	.0	.0	20.6	
E	1.7	.4	.5	.0	.0	.0	.0	.0	2.4		.1	.2	.1	.0	.0	.0	13.7	
SE	.6	.2	.1	.0	.0	.0	.0	.0	1.0		.1	.1	.1	.0	.0	.0	7.3	
S	.4	.2	.1	.0	.0	.0	.0	.0	.7		*	*	*	.0	.0	.0	6.8	
SW	.4	.3	*	.0	.0	.0	.0	.0	.7		.1	.1	.1	.0	.0	.0	8.6	
W	.1	*	*	.0	.0	.0	.0	.0	.2		*	*	*	.0	.0	.0	6.8	
NW	.2	.1	*	.0	.0	.0	.0	.0	.3		*	.1	.1	.0	.0	.0	7.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
CALM	*	.0	.0	.0	.0	.0	.0	.0	*		.1	.1	.1	.0	.0	.0	1.4	
TOT OBS	217	66	54	0	0	0	0	0		328	22	32	32	0	0	0	3072	3483
TOT PCT	6.2	1.9	1.6	.0	.0	.0	.0	.0	9.4		.6	.9	.9	.0	.0	.0	88.2	

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE				HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA						TOTAL OBS
				PCPN	FRZG	SNOW	OTHER					PCPN	FOG	SMOKE	DUST	BLWG	SIG	
0003	6.0	2.1	1.8	.0	.0	.0	.0	.0	9.3		.0	.9	.9	.0	.0	.0	88.8	
0609	6.1	1.7	1.4	.0	.0	.0	.0	.0	8.7		.1	.7	1.4	.0	.0	.0	89.0	
12015	5.4	1.9	1.5	.0	.0	.0	.0	.0	8.8		1.4	1.1	.9	.0	.0	.0	87.8	
18021	7.5	1.8	1.5	.0	.0	.0	.0	.0	10.8		1.2	1.0	.4	.0	.0	.0	87.0	
TOT	219	67	54	0	0	0	0	0		331	23	33	32	0	0	0	3108	3524
PCT	6.2	1.9	1.5	.0	.0	.0	.0	.0	9.1		.7	.9	.9	.0	.0	.0	88.2	

SEPTEMBER

PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1866-1970

AREA 0007 NOBEOKA
32.1N 133.0E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										PCT FREQ	MEAN SPD	TOTAL OBS	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+	48+	48+	48+	48+				00	03	06	09	12	15	18	21
N	.7	6.6	6.9	1.8	.2	*	*	*	*	*	16.2	13.1	4238	12.4	19.7	14.1	14.0	12.3	17.7	11.0	24.3
NE	1.3	9.0	9.8	3.4	.6	*	*	*	*	*	24.2	13.8		25.6	28.2	25.7	22.4	22.6	21.7	23.1	23.0
E	1.1	6.8	6.7	1.8	.3	*	*	*	*	*	16.7	12.8		16.1	15.7	18.8	20.1	18.0	15.8	17.6	13.2
SE	.7	4.0	3.0	.5	.2	.1	.1	.1	.1	.1	8.5	11.7		9.2	6.8	8.2	7.8	8.2	10.5	9.1	8.1
S	.8	3.6	2.8	.6	*	*	*	*	*	*	7.9	11.1		7.3	6.2	9.4	7.9	10.8	7.6	7.6	7.4
SW	.9	4.8	5.3	.4	*	*	*	*	*	*	9.5	10.4		10.9	7.8	8.8	12.8	11.5	7.8	10.6	7.2
W	.8	3.9	1.8	.2	.1	.0	.0	.0	.0	.0	6.7	9.5		6.7	6.4	7.0	7.9	7.9	6.8	6.0	5.5
NW	.7	4.4	2.5	.5	.1	.1	.1	.1	.1	.1	8.1	10.9		10.8	7.3	5.5	5.4	5.6	9.8	10.4	9.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.2	18.5	15.9	3.0	6.5	12	12	12	12	12	2.2	12.0		1.0	1.8	2.5	1.8	3.1	2.4	4.5	1.3
TOT OBS	387	1825	1559	390	9.2	1.5	.3	.3	.3	.3	100.0		4238	479	714	478	503	450	669	402	543
TOT PCT	9.1	43.1	36.8	9.2	1.5	.3	.3	.3	.3	.3	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)										41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-6	7-16	17-27	28-40	41+	41+	41+	41+	41+	41+					00	03	06	09	12	15	18	21
N	3.1	8.2	4.2	.7	.1	.1	.1	.1	.1	.1	16.2	13.1	16.2	13.1	16.8	14.0	15.5	18.7				
NE	4.8	11.1	6.5	1.6	.2	.2	.2	.2	.2	.2	24.2	13.8	24.2	13.8	27.1	24.0	22.1	23.1				
E	3.6	8.5	3.8	.6	.1	.1	.1	.1	.1	.1	16.7	12.8	16.7	12.8	15.9	19.5	16.7	15.1				
SE	2.4	4.3	1.2	.3	.1	.1	.1	.1	.1	.1	8.5	11.7	8.5	11.7	7.8	8.0	9.6	8.5				
S	2.5	3.8	1.2	.4	*	*	*	*	*	*	7.9	11.1	7.9	11.1	6.6	8.6	8.9	7.5				
SW	3.0	4.9	1.4	.1	*	*	*	*	*	*	9.5	10.4	9.5	10.4	9.1	10.9	9.3	8.7				
W	2.5	3.5	.6	.1	.0	.0	.0	.0	.0	.0	6.7	9.5	6.7	9.5	6.5	7.4	7.2	5.7				
NW	2.7	3.8	1.3	.2	.1	.1	.1	.1	.1	.1	8.1	10.9	8.1	10.9	8.7	5.5	8.1	10.1				
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
CALM	2.2	20.4	8.3	1.7	.6	.6	.6	.6	.6	.6	2.2	12.0	2.2	12.0	1.5	2.1	2.7	2.6				
TOT OBS	1137	2040	863	171	27	27	27	27	27	27	4238		100.0		1193	981	1119	945				
TOT PCT	26.8	48.1	20.4	4.0	.6	.6	.6	.6	.6	.6	100.0		100.0		100.0	100.0	100.0	100.0				

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TABLE 4

HOUR	CALC	PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)						PCT FREQ	
		1-3	4-10	11-21	22-33	34-47	48+		
0000	1.5	7.4	40.0	39.5	9.3	1.9	.4	12.5	100.0
0600	2.1	6.8	43.5	35.2	10.0	2.1	.2	12.2	100.0
1200	2.7	7.0	45.5	35.6	7.5	4.1	.4	11.3	100.0
1800	2.6	6.3	43.2	36.5	10.3	1.0	.1	11.9	100.0
TOT	94	293	182	1559	350	65	12	12.0	100.0
PCT	2.2	6.9	43.1	36.8	9.2	1.5	.3	100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	PCT FREQ								TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8-10	11-14	15-19	20-24	25-30		
N	4.4	2.0	2.5	2.4					4.1	4.1
NE	4.7	2.9	7.3	7.9					5.4	5.4
E	3.4	3.2	5.7	5.3					5.2	5.2
SE	1.6	1.9	3.3	2.4					5.3	5.3
S	2.5	2.0	2.9	1.7					4.5	4.5
SW	2.9	3.0	2.8	2.3					4.4	4.4
W	3.3	1.7	1.9	1.3					3.9	3.9
NW	3.9	1.1	1.9	1.2					3.5	3.5
VAR	1.0	.0	.0	.0					.0	.0
CALM	1.0	.6	.6	.2					3.2	3.2
TOT OBS	349	228	364	310					1251	4.7
TOT PCT	27.9	18.2	29.1	24.8					100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8)																TOTAL OBS	ANY HGT OBS
	000	149	150	299	300	599	600	999	1000	1999	2000	3499	4999	5000	6499	7999		
N	.1	.1	.1	.1	.1	.1	.7	.7	.7	.7	.6	.2	.0	.0	.2	.0	.0	8.6
NE	.2	.0	.0	.0	.5	.4	1.8	.8	3.9	3.0	.6	.6	.1	.1	.1	.1	.3	12.3
E	.1	.0	.0	.0	.4	.4	.8	.8	2.9	1.9	.4	.4	.1	.0	.0	.0	.1	11.0
SE	.0	.0	.0	.0	.1	.1	.1	.1	1.1	.7	.1	.1	.0	.0	.0	.0	.0	6.3
S	.1	.0	.0	.0	.1	.1	.3	.3	.9	.9	.2	.0	.0	.0	.0	.0	.0	6.6
SW	.0	.0	.0	.0	.1	.1	.6	.6	.7	.9	.9	.9	.1	.1	.1	.1	.2	8.4
W	.0	.0	.0	.0	.0	.0	.0	.0	.6	.3	.1	.0	.0	.0	.1	.0	.0	7.2
NW	.0	.0	.0	.0	.0	.0	.2	.2	.3	.7	.3	.0	.0	.0	.1	.0	.0	6.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.5	.0	.0	.0	.0	.0	.68	.68	.46	.11	.1	.1	.1	.0	.0	.0	.0	1.8
TOT OBS	5	1	1	16	1.3	1.6	5.4	5.4	11.7	9.1	1.9	24	2	2	7	9	859	1251
TOT PCT	.4	.1	.1	1.3	1.3	1.3	5.4	5.4	11.7	9.1	1.9	1.9	.2	.2	.6	.7	68.7	100.0

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TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	= DR >10	= DR >5	= DR >2	= DR >1	= DR >1/2	= DR >1/4	= DR >50YD	= DR >0
= DR >6500	.9	1.2	1.2	1.2	1.2	1.2	1.2	1.2
= DR >5000	1.0	1.4	1.4	1.4	1.4	1.4	1.4	1.4
= DR >3500	2.2	3.2	3.3	3.3	3.3	3.3	3.3	3.3
= DR >2000	8.6	11.8	12.3	12.3	12.3	12.3	12.3	12.3
= DR >1000	15.2	22.4	23.6	23.7	23.7	23.7	23.7	23.7
= DR >600	17.6	27.1	28.8	29.0	29.1	29.1	29.1	29.1
= DR >300	18.0	28.0	29.9	30.2	30.4	30.4	30.4	30.4
= DR >150	18.1	28.1	30.0	30.2	30.5	30.5	30.5	30.5
= DR >0	18.2	28.3	30.2	30.5	30.8	30.8	30.9	30.9
TOTAL	228	354	379	382	386	386	387	387

TOTAL NUMBER OF OBS: 1253

PCT FREQ NH <5/8: 69.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
12.3	15.9	20.4	11.8	8.0	6.5	8.2	4.6	11.9	.4	1355	

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VS8Y (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
FCP	.1	.1	.1	*	*	*	*	*	.0	.0	.3	
ND PCP	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
TOT %	.1	.1	.1	*	*	*	*	*	.0	.0	.4	
PCP	.1	.4	.1	*	*	*	.0	*	.0	.0	.7	
ND PCP	*	.1	*	*	.0	.0	.0	.0	.0	.0	.1	
TOT %	.1	.4	.2	.1	*	*	.0	*	.0	.0	.8	
PCP	.2	.4	.3	.2	.1	*	.0	.0	.0	.0	1.1	
ND PCP	*	*	.0	.0	.0	.0	.0	.1	.0	.0	.2	
TOT %	.2	.4	.3	.2	.1	*	.1	.1	.0	.0	1.3	
PCP	.3	.6	.5	.3	*	.2	*	.1	.0	.0	1.9	
ND PCP	*	.2	.3	.2	.1	.1	*	.1	.0	*	1.1	
TOT %	.3	.8	.8	.4	.2	.2	.1	.1	.0	*	3.0	
PCP	.4	.8	.8	.3	.4	.4	.1	.2	.0	*	3.4	
ND PCP	2.9	5.7	3.6	1.7	2.0	2.3	1.4	1.0	.0	.3	21.0	
TOT %	3.3	6.6	4.4	2.0	2.4	2.7	1.5	1.2	.0	.3	24.4	
PCP	.3	.5	.7	.2	.2	.1	*	*	.0	.0	2.0	
ND PCP	12.4	15.2	10.2	5.6	4.8	6.5	5.4	6.8	.0	1.3	68.1	
TOT %	12.7	15.7	10.9	5.8	5.0	6.6	5.4	6.8	.0	1.3	70.1	
TOT OBS												3479
TOT PCT	16.7	24.0	16.6	8.5	7.6	9.6	7.0	8.3	.0	1.6	100.0	

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TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	.0	.0	.0	.0	.0	*	*	.0	.0	.1	
	4-10	.1	*	*	.0	.0	.1	.1	.1	.0		.3	
	11-21	.1	.1	.1	.0	.0	.1	*	.1	.0		.3	
	22+	.0	.1	.1	.1	*	.0	.0	.0	.0		.3	
	TOT %	.2	.2	.2	.1	*	.2	.1	.2	.0	.0	1.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	*	*	*	.0	*	*	*	*	.0		.1	
	11-21	.1	.2	.1	.1	*	*	.0	*	.0		.5	
	22+	*	.2	.1	*	*	*	.0	.0	.0		.4	
	TOT %	.1	.4	.2	.1	.1	*	*	*	.0	.0	1.0	
1<2	0-3	.0	*	*	.0	.0	*	*	.0	.0	*	.1	
	4-10	*	.1	.1	.1	.1	*	.1	*	.0		.5	
	11-21	.1	.3	.1	.1	.1	*	*	.0	.0		.8	
	22+	.1	.2	.2	.1	.1	*	.0	.1	.0		.7	
	TOT %	.2	.7	.4	.2	.2	.1	.1	.1	.0	*	2.1	
2<5	0-3	*	*	.1	*	*	*	*	.0	.0	.2	.4	
	4-10	.3	.5	.3	.3	.3	.3	.2	.2	.0		2.4	
	11-21	.3	.5	.6	.1	.1	.1	*	*	.0		1.7	
	22+	.1	.4	.2	.2	*	*	.0	*	.0		1.0	
	TOT %	.7	1.4	1.2	.6	.4	.5	.2	.2	.0	.2	5.4	
5<10	0-3	.2	.5	.3	.1	.1	.4	.2	.2	.0	.3	2.3	
	4-10	1.3	1.9	1.5	.9	.9	.9	.7	.6	.0		8.7	
	11-21	1.1	2.3	1.6	.7	1.0	1.0	.4	.2	.0		8.3	
	22+	.4	1.4	.8	.2	.1	.2	.1	*	.0		3.2	
	TOT %	3.0	6.1	4.2	1.9	2.2	2.5	1.3	1.1	.0	.3	22.6	
10+	0-3	.5	.9	.7	.5	.6	.5	.6	.5	.0	1.6	6.3	
	4-10	5.0	6.3	4.5	2.7	2.3	3.3	3.0	3.4	.0		30.8	
	11-21	5.3	6.7	4.3	2.0	1.7	2.2	1.4	2.2	.0		25.7	
	22+	1.5	1.5	.9	.2	.3	.2	.2	.5	.0		5.2	
	TOT %	12.3	15.4	10.4	5.4	4.9	6.2	5.1	6.6	.0	1.6	67.8	
TOT OBS		3881											
TOT PCT		16.6	24.2	16.5	8.2	7.8	9.5	6.9	8.3	.0	2.1	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000	150	300	450	600	750	900	1050	1200	1350	1500	1650	1800	1950	TOTAL	NH <5/8 ANY HGT	TOTAL
00003	.0	.3	1.1	5.6	14.2	10.3	2.8	.0	.8	.8	.8	.8	.8	.8	.8	64.2	360
06009	.5	.0	1.4	6.0	9.2	9.0	2.2	.5	.5	.5	.5	.5	.5	.5	.5	70.1	368
12015	.7	.0	1.0	4.9	11.4	4.9	1.6	.0	.3	.7	.7	.7	.7	.7	.7	74.6	307
18021	.3	.0	1.4	3.8	9.4	10.1	.3	.0	.3	.7	.7	.7	.7	.7	.7	73.4	286
TOT	5	1	16	68	147	114	24	2	7	9	393	928	1321				
PCT	.4	.1	1.2	5.1	11.1	8.6	1.8	.2	.5	.7	29.8	76.2	100.0				

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.0	.3	3.9	21.7	74.1	336
06009	.0	.6	.3	2.9	20.4	75.9	348
12015	.0	.3	.3	2.0	24.5	72.8	294
18021	.7	.4	.0	2.9	19.9	76.1	276
TOT	2	4	3	37	271	937	1254
PCT	.2	.3	.2	3.0	21.6	74.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <1	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	1.5	10.1	28.9	61.0	336
06009	.6	2.3	11.2	21.3	67.5	348
12015	.7	1.7	8.2	18.4	73.5	294
18021	.7	2.5	8.0	20.3	71.7	276
TOT	6	25	112	281	854	1254
PCT	.5	2.0	9.5	22.4	68.1	100.0

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TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL OBS
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	C		
95/99	.0	.0	.0	.0	.0	.1	.0	.0	.0	1	
90/94	.0	.0	.0	.0	.5	.5	.1	.0	.0	15	
85/89	.0	.0	.1	.2	1.2	4.0	1.9	.5	.0	101	
80/84	.0	.2	.5	1.2	5.1	13.6	22.4	6.1	.0	628	
75/79	.0	.0	.4	2.7	6.5	9.6	6.7	.0	.0	417	
70/74	.0	.0	.2	.9	2.0	1.0	1.1	3.0	.0	114	
65/69	.0	.0	.0	.0	.1	.2	.2	.0	.0	8	
TOTAL	.0	.2	1.5	6.3	19.9	36.1	41.5	20.9	.0	1284	
PCT	.0	.2	1.2	4.9	15.5	29.7	32.3	16.3			

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP												
N	NE	E	SE	S	SW	W	NW	VAR	CALM			
.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
.0	.1	.3	.1	.1	.4	.2	.1	.0	.0	.0	.0	.0
.1	1.0	1.9	1.0	1.1	1.3	.9	.3	.0	.0	.0	.0	.3
3.4	8.9	8.5	6.3	6.6	7.0	3.9	2.9	.0	.0	.0	.0	1.4
6.2	11.2	5.7	1.2	1.2	1.6	1.6	3.1	.0	.0	.0	.0	.6
2.8	2.9	.7	.2	.2	.2	.6	1.2	.0	.0	.0	.0	.1
.4	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
13.0	24.2	17.1	8.8	9.2	10.5	7.1	7.7	.0	.0	.0	.0	2.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR										
HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS	
0003	93	89	86	80	72	68	63	79.3	1195	
0609	95	90	86	81	72	68	62	79.8	981	
1215	91	85	83	79	72	67	63	78.0	1120	
1821	88	84	83	78	70	66	61	77.2	952	
TOT	95	88	85	79	72	67	61	78.6	4248	

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR											TOTAL
HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	OBS	
0003	.0	5.7	13.6	31.2	35.2	14.4	79	369			
0609	.0	9.2	24.8	30.0	23.3	12.7	73	347			
1215	.0	6.3	11.0	29.3	34.7	18.7	80	300			
1821	.0	3.6	11.4	27.1	36.6	21.1	81	280			
TOT	0	62	201	383	418	212	78	1296			

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	61	65	69	73	77	81	85	89	92	TOT	W	WU
	64	68	72	76	80	84	88	92		FUG	FUG	FUG
11/13	.0	.0	.0	.0	.1	.1	.1	.1	.1	13	.0	.4
9/10	.0	.0	.0	.0	.1	.1	.1	.1	.1	14	.0	.4
7/8	.0	.0	.0	.0	.1	.1	.1	.1	.1	31	.0	.9
6	.0	.0	.0	.0	.1	.1	.1	.1	.1	6	.0	.2
5	.0	.0	.0	.1	.1	.1	.1	.1	.1	50	.0	1.5
4	.0	.0	.1	.1	.1	.1	.1	.1	.1	113	.0	3.4
3	.0	.0	.1	.1	.1	.1	.1	.1	.1	48	.0	1.4
2	.0	.0	.1	.1	.1	.1	.1	.1	.1	325	.2	9.6
1	.0	.0	.1	.1	.1	.1	.1	.1	.1	145	.0	4.3
0	.0	.0	.1	.1	.1	.1	.1	.1	.1	676	.4	19.9
-1	.0	.0	.1	.1	.1	.1	.1	.1	.1	203	.0	6.0
-2	.0	.1	1.3	4.2	7.9	5.3	.1	.0	.0	635	.2	18.8
-3	.0	.1	1.7	5.2	2.4	1.1	.0	.0	.0	147	.0	4.4
-4	.0	.1	1.7	3.2	1.7	.3	.0	.0	.0	422	.0	12.6
-5	.0	.2	1.8	3.2	1.7	.3	.0	.0	.0	243	.0	7.2
-6	.0	.3	1.3	1.7	.9	.1	.0	.0	.0	80	.1	2.3
-7/-8	.0	.3	1.3	1.7	.9	.1	.0	.0	.0	128	.0	3.8
-9/-10	.0	.1	.6	.3	.0	.1	.0	.0	.0	37	.0	1.1
-11/-13	.1	.1	.2	.1	.1	.0	.0	.0	.0	20	.0	.6
-14/-16	.1	.1	.2	.1	.1	.0	.0	.0	.0	3	.0	.1
TOTAL	R	37	272	671	1025	1148	146	27	5	3339	31	3308
PCT	.2	1.1	8.1	20.1	30.7	34.4	4.4	.8	.1	100.0	.9	99.1

SEPTEMBER

PERIOD: (OVER-ALL) 1963-1970

AREA 0007 NOBEUKA
36.1N 133.0E

TABLE 10

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (Ft)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.2	.0	.0	.0	.7	.8	.4	.0	.0	.0	.0	1.7
1-2	.2	1.8	1.1	.0	.0	.0	3.0	.9	2.6	2.0	.0	.0	.0	5.5
3-4	.0	1.4	2.2	.6	.0	.0	4.2	.0	1.9	4.7	.7	.0	.0	7.3
5-6	.0	.2	1.3	.4	.0	.0	1.8	.2	.1	3.1	1.9	.2	.0	5.5
7	.0	.2	.4	.2	.0	.0	.8	.0	.3	1.9	1.7	.3	.0	4.2
8-9	.0	.0	.0	.0	.2	.0	.2	.0	.0	1.1	1.1	.1	.0	2.3
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.8	.5	.4	.0	1.7
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.2	.0	.4
13-16	.0	.0	.2	.2	.0	.0	.4	.0	.0	.0	.9	.2	.0	1.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	4.1	5.3	1.5	.2	.0	11.2	1.9	5.7	13.6	7.5	1.2	.0	30.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6	.1	.6	.0	.0	.0	.0	1.7
1-2	.6	3.2	1.3	.0	.0	.0	5.1	.0	1.9	.7	.0	.0	.0	2.6
3-4	.0	1.9	3.1	.4	.0	.0	5.3	.0	1.4	1.6	.0	.0	.0	2.0
5-6	.0	.3	2.3	1.6	.0	.0	4.3	.0	.5	.3	.0	.0	.0	.3
7	.0	.2	2.0	.4	.2	.0	2.7	.0	.4	.3	.0	.0	.0	.9
8-9	.0	.0	.6	.2	.0	.0	.7	.0	.2	.2	.0	.0	.0	.4
10-11	.0	.0	.2	.2	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	6.2	9.7	2.9	.2	.0	19.5	.1	4.1	3.3	.0	.0	.0	7.4

PERIOD: (OVER-ALL) 1963-1970

SEPTEMBER

AREA 0007 NORDOKA
32.1N 133.0E

TABLE 10

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.4	.0	.0	.0	.0	.7	.1	.3	.0	.0	.0	.0	.6
1-2	.0	.7	.6	.0	.0	.0	1.3	.0	2.7	1.1	.0	.0	.0	3.7
3-4	.0	.4	.8	.0	.0	.0	1.2	.0	.7	1.8	.0	.0	.0	2.5
5-6	.0	.0	.3	.2	.0	.0	.5	.0	.1	.6	.3	.0	.0	.9
7	.0	.2	.2	.0	.0	.0	.4	.0	.0	.4	.1	.0	.0	.5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	4	1.6	2.2	.2	.0	.0	4.4	.1	3.9	3.8	.3	.0	.0	8.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.2	.0	.0	.0	.0	.5	.0	.3	.0	.0	.0	.0	.9
1-2	.2	2.5	.4	.0	.0	.0	4.1	.1	3.2	1.3	.0	.0	.0	4.3
3-4	.0	2.1	.4	.0	.0	.0	2.4	.0	1.1	.5	.0	.0	.0	1.1
5-6	.0	.3	.7	.2	.0	.0	1.2	.0	.5	2.2	.3	.0	.0	2.9
7	.0	.0	.0	.4	.0	.0	.4	.0	.0	.7	.0	.0	.0	.7
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-43	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	5.1	1.5	.5	.0	.0	7.6	.7	4.5	4.4	.3	.2	.0	10.3

SEPTEMBER

PERIOD: (OVER-ALL) 1963-1970

AREA 0907, NOBESKA
32.1N 133.0E

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)						TOT OBS
	0-3	4-10	11-21	22-33	34-47	48+	PCT
<1	4.6	4.0	.2	.0	.0	.0	8.7
1-2	2.1	19.3	8.3	.0	.0	.0	28.7
3-4	.2	19.1	14.8	1.7	.0	.0	23.8
5-6	.2	1.9	10.6	4.8	.2	.0	17.7
7	.0	1.2	6.0	2.7	.4	.0	10.4
8-9	.0	.2	1.9	1.2	.2	.0	3.9
10-11	.0	.0	1.2	.8	.4	.0	2.9
12	.0	.0	.2	.4	.0	.0	1.6
13-16	.7	.0	.2	1.2	.2	.0	1.7
17-19	.0	.0	.0	.2	.0	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.2	.0	.2
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.7	.7
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	7.1	34.7	43.9	13.1	1.7	.0	100.0
							481

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<1	3.4	19.5	12.9	5.2	2.6	1.4	.4	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	488	3
1-2	.0	1.8	7.0	7.7	4.5	1.5	.2	.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	288	3
3-4	.1	.5	1.1	2.5	2.6	1.1	.4	.7	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	115	7
5-6	.0	.1	.4	.6	1.2	.7	.3	.5	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	47	8
7-9	.0	.0	.2	.1	.2	.4	.2	.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	10
10-11	.0	.0	.0	.2	.1	.3	.2	.4	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	15	13
12-13	.0	.0	.0	.2	.0	.1	.2	.4	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	110	3
13-16	.0	.0	.0	.2	.0	.1	.2	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	103	3
16-19	.0	.0	.0	.2	.0	.1	.2	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	103	3
19-22	.0	.0	.0	.2	.0	.1	.2	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	103	3
22-25	.0	.0	.0	.2	.0	.1	.2	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	103	3
25-28	.0	.0	.0	.2	.0	.1	.2	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	103	3
28-32	.0	.0	.0	.2	.0	.1	.2	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	103	3
32-36	.0	.0	.0	.2	.0	.1	.2	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	103	3
36-40	.0	.0	.0	.2	.0	.1	.2	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	103	3
40-44	.0	.0	.0	.2	.0	.1	.2	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	103	3
44-48	.0	.0	.0	.2	.0	.1	.2	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	103	3
48-52	.0	.0	.0	.2	.0	.1	.2	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	103	3
52-56	.0	.0	.0	.2	.0	.1	.2	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	103	3
56-60	.0	.0	.0	.2	.0	.1	.2	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	103	3
60-64	.0	.0	.0	.2	.0	.1	.2	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	103	3
64-68	.0	.0	.0	.2	.0	.1	.2	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	103	3
68-72	.0	.0	.0	.2	.0	.1	.2	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	103	3
72-76	.0	.0	.0	.2	.0	.1	.2	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	103	3
76-80	.0	.0	.0	.2	.0	.1	.2	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	103	3
80-84	.0	.0	.0	.2	.0	.1	.2	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	103	3
84-88	.0	.0	.0	.2	.0	.1	.2	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	103	3
88-92	.0	.0	.0	.2	.0	.1	.2	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	103	3
92-96	.0	.0	.0	.2	.0	.1	.2	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	103	3
96-100	.0	.0	.0	.2	.0	.1	.2	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	103	3
TOTAL	7.7	23.4	23.3	17.3	11.8	5.2	1.8	3.1	.3	.6	.1	.1	.0	.0	.0	.0	.0	.0	100.0	
PCT																				

OCTOBER

PERIOD: (PRIMARY: 1933-1970
(OVER-ALL) 1856-1970AREA 0007 NOBROKA
38.1N 139.0E

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			MAIL	PCT FREQ PCPN AT OBS TIME	TOTAL PCPN OBS	THOR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				FRZG PCPN	SNOW PCPN	OTHER PCPN					FOG NO	SMOKE HAZE	DUST BLW	NO SNOW	NO WEA	
N	1.4	.3	.7	.0	.0	.0	.0	2.2			.1	.1	.0	.0	22.8	
NE	2.9	.5	1.4	.0	.0	.0	.0	4.2		.1	.1	.1	.0	.0	26.0	
E	1.7	.3	.2	.0	.0	.0	.0	2.3		.0	.0	.0	.0	.0	11.4	
SE	.7	.2	.2	.0	.0	.0	.0	1.2		.0	.0	.0	.0	.0	4.8	
S	.6	.1	.3	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	3.2	
SW	.4	.1	.2	.0	.0	.0	.0	.4		.0	.0	.0	.0	.0	3.1	
W	.2	.1	.1	.0	.0	.0	.0	.4		.1	.0	.0	.0	.0	4.4	
NW	.3	.4	.2	.0	.0	.0	.0	.4		.0	.1	.0	.0	.0	10.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	.1	.0	.0	.0	.0	.0	.0	.1		.0	.0	.0	.0	.0	.0	
TOT OBS	320	62	131	1	0	0	0	11	471	9	11	12	2	2403	8	3909
TOT PCT	8.4	1.6	3.4	.4	.0	.0	.0	12.1		.2	.3	.3	.1	87.1	.1	

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			MAIL	PCT FREQ PCPN AT OBS TIME	TOTAL PCPN OBS	THOR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				FRZG PCPN	SNOW PCPN	OTHER PCPN					FOG NO	SMOKE HAZE	DUST BLW	NO SNOW	NO WEA	
0003	7.2	1.2	2.8	.0	.0	.0	.0	9.9		.2	.3	.1	.0	.0	89.7	
0609	5.3	1.1	4.0	.1	.0	.0	.0	11.7		.0	.4	.4	.0	.0	87.5	
1215	8.8	2.1	2.9	.0	.0	.0	.0	13.2		.3	.3	.7	.0	.0	88.4	
1821	9.0	2.1	4.0	.0	.0	.0	.0	13.8	478	.2	.1	.1	.2	.0	83.6	
TOT	329	62	133	1	0	0	0	12.1		9	11	13	2	2430	8	3937
PCT	8.4	1.6	3.4	.4	.0	.0	.0	12.1		.2	.3	.3	.1	.1	87.1	

OCTOBER

PERIOD: (PRIMARY) 1933-1970
(OVERALL) 1856-1970AREA 0007 NOBESKA
32.1N 133.0E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						18	21																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
	0-3	4-10	11-21	22-33	34-47	48+	00	03	06	09				12																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
N	1.0	8.4	10.8	3.6	.7	.1	24.7	14.5			26.9	27.7	23.9	19.9	20.8	23.0	24.3	20.1		20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	2

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+ TOTAL OBS	PCT FREQ		MEAN SPD		HOUR (GMT)									
	0-6	7-14	17-27	28-40						00	03	06	09	12	15	18	21			
N	4.1	11.9	6.8	1.6	.3		24.7	27.4	19.5	21.8	22.1	27.4								
NE	4.2	14.7	9.4	2.5	.2		31.0	31.8	19.1	20.3	20.6	31.0								
E	2.9	6.8	3.4	.9	*		14.0	12.5	13.4	16.7	13.1	12.5								
SE	1.8	3.2	.9	.3	*		6.2	5.3	11.6	5.9	7.7	5.3								
S	1.2	2.0	.6	.1	.1		4.0	4.2	10.9	3.4	4.0	4.2								
SW	1.1	1.7	.8	.1	*		3.7	3.4	1.5	3.3	3.3	3.4								
W	1.4	2.1	.7	.2	*		4.5	3.8	1.6	3.3	3.0	3.8								
NW	2.5	5.4	2.5	.5	.1		11.0	10.6	11.8	10.3	10.6	10.6								
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0								
CALM	1.0	2215	1164	289	32	4638	1.0	.8	13.6	.9	1.7	.8								
TOT OBS	938	47.8	25.1	6.2	.7		100.0	100.0	13.6	1086	1199	1086								
TOT PCT	20.2	10.0	5.0	1.5	0.7		100.0	100.0	100.0	100.0	100.0	100.0								

OCTOBER

PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1956-1970ARRA 0007 NORDOKA
22.1N 133.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00003	.8	3.8	33.1	43.1	16.2	2.9	.2	14.6	100.0	1312
06009	.9	5.6	35.0	41.7	14.3	2.3	.2	13.8	100.0	1086
12015	1.7	6.8	39.1	37.9	12.6	1.7	.3	12.7	100.0	1199
18021	.4	5.6	37.7	41.1	13.3	1.7	.3	13.4	100.0	1041
TOT	45	251	1675	1900	656	101	10	13.6		4638
PCT	1.0	5.4	36.1	41.0	14.1	2.2	.2		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-6	DBSCD	TOTAL OBS	MEAN CLOUD COVER
N	8.0	3.9	6.8	6.7			4.5
NE	8.0	5.0	9.7	10.7			5.1
E	2.1	1.7	3.5	5.4			5.7
SE	.5	.9	1.4	1.6			5.6
S	.8	.4	1.4	2.0			5.9
SW	1.5	.7	1.2	1.4			4.8
W	2.0	.6	1.5	1.7			3.8
NW	3.3	1.8	2.3	1.7			4.1
VAR	.0	.0	.0	.0			.0
CALM	.5	.1	.0	.1			2.3
TOT OBS	348	196	363	397		1304	4.9
TOT PCT	26.7	15.0	27.8	30.4		100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
N	.1	.1	.1	1.7	3.1	3.1	.5	.4	.0	.0	.3	16.0
NE	.3	.1	.1	2.3	5.9	3.6	.7	.1	.1	.1	.2	20.0
E	.2	.1	.7	1.2	1.8	1.8	.6	.2	.1	.0	.0	6.2
SE	.1	.1	.1	.6	.4	.5	.2	.1	.0	.0	.0	2.4
S	.0	.1	.2	.6	.9	.4	.3	.0	.1	.0	.0	3.2
SW	.0	.0	.3	.2	.7	.3	.4	.0	.1	.0	.0	3.3
W	.1	.0	.0	.3	.3	.4	.1	.0	.1	.1	.1	3.4
NW	.4	.0	.0	.5	.9	.7	.2	.0	.0	.0	.0	6.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5
TOT OBS	10	3	21	98	183	140	34	11	5	8	791	1304
TOT PCT	.8	.2	1.6	7.5	14.0	10.7	2.6	.8	.4	.6	60.7	100.0

PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1956-1970

OCTOBER

AREA# 0007 NOBEDKA
32.1N 133.0E

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)		OR		OR		OR		OR		OR	
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0	>10	>5	>2	>1
= OR >6500	.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
= OR >5000	1.5	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
= OR >3500	3.4	4.2	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
= OR >2000	11.0	14.7	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3
= OR >1000	19.4	27.6	29.1	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2
= OR >600	22.2	34.3	36.5	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7
= OR >300	22.6	35.1	37.6	37.9	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1
= OR >150	22.6	35.1	37.6	38.2	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3
= OR >0	22.7	35.3	38.1	38.6	38.9	39.3	39.3	39.3	39.3	39.3	39.3	39.3
TOTAL	236	460	496	502	507	512	512	512	512	512	512	513

TOTAL NUMBER OF OBS: 1302 PCT FREQ NH <5/8: 60.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
11.3	12.0	16.6	10.8	8.7	6.9	9.3	6.5	17.2	.8	1437	

PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1856-1970

OCTOBER

AREA 0007 NOBODKA
32.1N 133.0E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	.1	.1	.1	.1	*	.1	.0	*	.0	.0	.4	
PCP	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
NO PCP	.1	.1	.1	.1	*	.1	.0	*	.0	.0	.4	
TOT %												
1/2<1	.1	.2	.2	.1	.1	*	.0	*	.0	.0	.8	
PCP	.0	*	*	.0	*	.0	.0	.0	.0	.0	.2	
NO PCP	.1	.3	.2	.1	.1	*	.0	*	.0	.0	.6	
TOT %												
1<2	.3	.8	.3	.1	.1	*	*	.1	.0	.0	1.6	
PCP	*	.1	*	*	.0	*	.0	*	.0	.0	.2	
NO PCP	.3	.8	.3	.1	.1	.1	*	.1	.0	.0	1.7	
TOT %												
2<5	.5	1.1	.7	.2	.2	.1	.1	.1	.0	.0	3.1	
PCP	.2	.5	.2	*	.1	.1	.0	.1	.0	.0	1.3	
NO PCP	.8	1.5	1.0	.2	.3	.2	.1	.2	.0	.0	4.3	
TOT %												
5<10	.9	1.4	.7	.6	.2	.3	.2	.2	.0	.0	4.5	
PCP	4.6	5.5	2.8	1.3	.6	.7	.9	1.8	.0	.1	18.3	
NO PCP	5.5	6.9	3.5	1.9	.9	1.1	1.1	2.0	.0	.1	22.9	
TOT %												
10+	.3	.6	.2	.1	.1	.1	.1	.1	.0	.1	1.6	
PCP	18.2	20.2	8.4	3.5	2.5	2.2	3.5	9.0	.0	.6	68.1	
NO PCP	18.5	20.8	8.6	3.6	2.7	2.3	3.6	9.1	.0	.7	69.8	
TOT %												
TOT OBS	25.2	30.4	13.7	6.0	4.1	3.7	4.8	11.4	.0	.8	100.0	
TOT PCT												3894

PERIOD: (PRIMARY) 1923-1970
(OVER-ALL) 1856-1970

OCTOBER

AREA 0007 NOBEOKA
32.1N 133.0E

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT TOTAL OBS
<1/2	0-3	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.3
	4-10	.1	.1	*	*	.0	.0	.0	*	.0	.0	.2
	11-21	*	.1	.1	*	.0	.0	.0	*	.0	.0	.4
	22+	.1	*	.1	*	*	.1	.0	.1	.0	.0	.9
	TOT %	.2	.3	.2	.1	*	.	.0	.1	.0	.0	*
1/2<1	0-3	*	*	*	.0	.0	.0	.0	.0	.0	.0	.1
	4-10	*	.1	*	.0	*	.0	.0	.0	.0	.0	.4
	11-21	*	.1	.1	*	.0	.0	.0	.0	.0	.0	.4
	22+	*	.1	.1	.1	.1	*	.0	*	.0	.0	1.0
	TOT %	.1	.3	.2	.1	.1	*	.0	*	.0	.0	.2
1<2	0-3	*	*	.0	*	*	*	*	*	.0	.0	.5
	4-10	.1	.2	.1	*	*	*	*	.1	.0	.0	.8
	11-21	.2	.4	.1	.1	*	.0	*	.0	.0	.0	.8
	22+	.1	.5	.1	*	*	*	.0	*	.0	.0	2.4
	TOT %	.4	1.0	.4	.2	.1	.1	.1	.1	.0	.0	.4
2<5	0-3	.1	*	*	*	.1	*	*	.1	.0	*	.4
	4-10	.3	.7	.3	.2	.2	.2	*	.2	.0	*	2.0
	11-21	.5	.7	.7	.2	.1	*	*	*	.0	*	2.2
	22+	.3	.7	.4	.1	*	*	*	*	.0	*	1.6
	TOT %	1.1	2.0	1.3	.5	.4	.3	.1	.3	.0	*	6.1
5<10	0-3	.2	.6	.1	.2	.1	.1	.1	.2	.0	.1	1.3
	4-10	1.6	2.0	1.1	.7	.4	.2	.4	.6	.0	.0	7.1
	11-21	2.1	3.1	1.5	.8	.2	.5	.3	.8	.0	.0	9.1
	22+	1.3	1.2	.7	.2	.1	.1	.2	.4	.0	.0	4.3
	TOT %	5.2	6.5	3.4	1.9	.8	1.0	1.0	1.9	.0	.1	21.7
10+	0-3	.7	.8	.4	.3	.2	.3	.4	.4	.0	.8	4.3
	4-10	6.4	6.4	3.5	1.9	1.5	1.1	1.5	3.9	.0	.0	26.4
	11-21	8.3	10.0	3.6	1.0	.7	.7	1.1	3.2	.0	.0	28.6
	22+	2.7	3.3	.7	.2	.1	*	.4	1.2	.0	.0	8.6
	TOT %	18.1	20.5	8.2	3.4	2.5	2.2	3.4	8.8	.0	.8	67.9
TOT OBS												4275
TOT PCT		25.1	30.5	13.7	6.2	4.1	3.7	4.6	11.2	.0	.9	100.0

PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1856-1970

OCTOBER

AREA 0007 NOBEDKA
32.1N 133.0E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	1.3	.0	2.6	5.5	13.9	10.5	1.0	1.0	.3	.8	36.9	63.1	382
06009	.8	.3	1.9	7.0	12.6	9.9	3.2	.0	.3	1.3	37.2	62.8	374
12015	.3	.0	.3	8.4	12.8	10.1	3.4	.7	.3	.0	36.4	63.6	297
18021	.3	.6	.9	8.5	14.6	10.8	2.5	1.6	.6	.0	40.5	59.5	316
TOT	10	3	21	99	184	141	34	11	5	8	516	853	1269
PCT	.7	.2	1.5	7.2	13.4	10.3	2.5	.8	.4	.6	37.7	62.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	1.4	.6	.6	2.8	16.7	78.0	354
06009	.0	.6	.0	3.1	20.3	76.0	354
12015	.0	.0	.7	2.1	22.9	74.3	288
18021	3	.3	1.0	4.9	25.6	68.0	309
TOT	6	5	7	42	276	969	1305
PCT	.5	.4	.5	3.2	21.1	74.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	1.7	4.5	12.4	27.7	59.9	354
06009	.8	3.1	11.9	27.7	60.5	354
12015	.7	1.0	10.4	27.4	62.2	288
18021	.6	2.6	14.9	27.5	57.6	309
TOT	13	38	162	360	783	1305
PCT	1.0	2.9	12.4	27.6	60.0	100.0

OCTOBER

PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1856-1970

AREA 0007 NOBEOKA
32.1N 133.0E

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.1	.1	.1	.1	.0	.0	5	.3
80/84	.0	.0	.1	.3	.6	1.5	1.4	.3	62	4.2
75/79	.0	.0	.3	3.3	4.5	10.0	6.0	4.6	423	28.7
70/74	.0	.3	1.6	6.7	12.5	10.3	6.5	7.7	672	45.6
65/69	.0	.0	.7	4.0	4.1	4.4	2.5	2.4	267	18.1
60/64	.0	.0	.2	.7	.7	.3	.1	.7	41	2.8
55/59	.0	.0	.0	.0	.0	.1	.0	.1	3	.2
TOTAL	0	4	43	220	335	393	244	234	1473	100.0
PCT	.0	.3	2.9	14.9	22.7	26.7	16.6	15.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

TEMP F	N	NE	E	SE	S	SW	W	NW	VAR	CALM
85/89	.1	.1	.1	.#	.1	.#	.0	.#	.0	.1
80/84	.3	.7	.6	.7	1.1	.5	.4	.0	.0	.0
75/79	5.5	8.4	5.5	2.3	1.7	1.8	1.1	2.2	.0	.1
70/74	11.5	18.1	6.5	1.7	1.1	.7	1.4	4.1	.0	.4
65/69	6.8	5.8	1.2	.2	.2	.2	.9	2.8	.0	.1
60/64	.9	.5	.1	.0	.0	.1	.4	.8	.0	.0
55/59	.1	.0	.1	.0	.0	.0	.0	.1	.0	.0
TOTAL	25.1	33.5	14.0	5.0	4.1	3.3	4.2	10.0	.0	.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	87	82	80	73	64	61	52	72.4	1304
06009	88	82	79	73	64	57	52	72.3	1088
12015	88	82	78	72	63	58	55	71.2	1203
18021	84	79	77	71	63	57	52	70.2	1039
TOT	88	82	79	72	64	59	52	71.6	4634

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	17.5	21.6	25.3	18.8	16.8	74	463
06009	.0	21.8	21.8	26.4	13.7	16.3	72	386
12015	.0	18.0	24.5	26.3	18.7	12.5	73	327
18021	.0	14.6	23.7	29.2	14.9	17.5	74	308
TOT	0	269	337	395	247	236	73	1484

PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1856-1970

OCTOBER

AREA 0007 NOBEDKA
32.1N 133.0E

TABLE 17
PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49	53	57	61	65	69	73	77	81	85	TOT	W	WQ
	52	56	60	64	68	72	76	80	84	88		FOG	FOG
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	.1
9/10	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	6	.0	.2
7/8	.0	.0	.0	.0	.0	.0	.1	.1	.1	.0	11	.0	.3
6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	5	.0	.1
5	.0	.0	.0	.0	.0	.0	.1	.3	.1	.2	23	.0	.6
4	.0	.0	.0	.0	.1	.3	.5	.4	.3	.0	61	.0	1.6
3	.0	.0	.0	.0	.0	.0	.1	.1	.1	.0	11	.0	.3
2	.0	.0	.0	.0	.3	.5	.9	.9	.7	.0	125	.0	3.3
1	.0	.0	.0	.0	.1	.1	.5	.7	.2	.0	52	.0	1.4
0	.0	.0	.0	.2	.4	1.7	3.6	2.1	.6	.0	322	.0	8.6
-1	.0	.0	.0	.0	.1	.3	1.1	1.2	.3	.0	112	.0	3.0
-2	.0	.0	.0	.2	1.3	4.0	6.5	2.4	.1	.0	541	.0	14.5
-3	.0	.0	.0	.0	.0	.1	.7	2.2	1.0	.0	153	.0	4.1
-4	.0	.0	.0	.7	2.2	6.1	5.9	.6	.0	.0	583	.1	15.5
-5	.0	.0	.1	1.4	2.4	4.3	4.1	.3	.0	.0	463	.1	12.3
-6	.0	.0	.0	.1	.3	2.1	2.5	.2	.0	.0	193	.1	5.1
-7/-8	.0	.0	.1	1.4	3.1	5.8	2.8	.1	.0	.0	498	.0	13.3
-9/-10	.0	.0	.1	1.7	2.5	3.0	.9	.0	.0	.0	302	.1	8.0
-11/-13	.0	.1	.2	1.6	2.0	1.5	.1	.0	.0	.0	200	.0	5.4
-14/-16	.0	.1	.2	.5	.6	.1	.0	.0	.0	.0	56	.0	1.5
-17/-19	.0	.0	.2	.1	.1	.0	.0	.0	.0	.0	13	.0	.3
-20/-22	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	3	9	33	287	575	1144	1186	388	103	7	3735	11	3724
PCT	.1	.2	.9	7.7	15.4	30.6	31.8	10.4	2.8	.2	100.0	.3	99.7

PERIOD: (OVER-ALL) 1963-1970 OCTOBER AREA 0007 NDSEOKA 32.1N 133.0E
TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.8	.0	.0	.0	.0	.8	.0	.9	.0	.0	.0	.0	.9
1-2	.2	4.2	3.7	.0	.0	.0	8.1	.1	3.3	2.3	.0	.0	.0	5.6
3-4	.0	2.2	3.2	1.4	.0	.0	6.9	.0	2.1	4.8	1.2	.0	.0	8.1
5-6	.0	.4	2.3	.6	.0	.0	3.3	.0	.9	4.1	.6	.0	.0	5.6
7	.0	.0	1.4	1.4	.4	.0	3.3	.0	.2	2.6	2.3	.0	.0	5.1
8-9	.0	.0	.2	.5	.0	.0	.7	.0	.1	.7	1.4	.0	.0	2.2
10-11	.0	.0	.0	1.0	.0	.2	1.2	.0	.0	.3	1.4	.4	.1	2.2
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.3	.2	.0	.5
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.6
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	7.7	10.9	5.3	.7	.2	25.0	.1	7.5	15.1	7.3	1.2	.1	31.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.2
1-2	.2	3.3	.9	.0	.0	.0	4.4	.0	.6	.9	.0	.0	.0	1.6
3-4	.0	1.4	2.1	.2	.0	.0	3.8	.2	.9	1.5	.2	.0	.0	2.8
5-6	.0	.4	2.3	.6	.0	.0	3.3	.0	.0	.5	.3	.0	.0	.8
7	.0	.0	.2	1.2	.0	.0	1.3	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.2	.2	.2	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.2	.4	.0	.0	.6	.0	.0	.2	.2	.0	.0	.4
12	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2
13-16	.0	.0	.2	.2	.2	.0	.6	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	5.6	6.2	2.8	.2	.0	15.0	.2	1.7	3.8	.7	.0	.0	6.5

OCTOBER
TABLE 10
PERIOD: (OVER-ALL) 1963-1970
AREA 0007, NOWSOKA
32.1N 133.0E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.4	.2	.0	.0	.0	.6	.0	.7	.4	.0	.0	.0	1.1
3-4	.0	.7	1.1	.0	.0	.0	1.7	.0	.3	.0	.0	.0	.0	.6
5-6	.0	.4	.2	.4	.0	.0	.9	.0	.1	.5	.0	.0	.0	.1
7	.0	.0	.2	.0	.0	.0	.2	.0	.0	.1	.0	.0	.0	.0
8-9	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	1.5	1.6	.8	.0	.0	4.3	.0	1.1	1.3	.1	.0	.0	2.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.2	.0	.0	.0	.0	.4	.1	.7	.0	.0	.0	.0	.7
1-2	.0	.4	.4	.0	.0	.0	.8	.2	1.3	1.7	.0	.0	.0	3.2
3-4	.0	.4	1.5	.0	.0	.0	1.9	.4	.9	1.8	.0	.0	.0	3.2
5-6	.0	.2	.2	.0	.0	.0	.4	.2	.2	1.2	.3	.0	.0	1.9
7	.0	.0	.2	.2	.0	.0	.4	.0	.0	.7	.0	.0	.0	.7
8-9	.0	.0	.2	.2	.0	.0	.2	.0	.0	.4	.2	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.2	2.6	.4	.0	.0	4.3	.9	3.1	5.8	.6	.0	.0	10.5

OCTOBER

PERIOD: (OVER-ALL) 1963-1970

AREA 0007, NOBROKA
32.1N 133.0E

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)						TOT ODS
	0-3	4-10	11-21	22-33	34-47	48.	
<1	1.8	3.3	.0	.0	.0	.0	5.1
1-2	.7	14.2	10.4	.0	.0	.0	25.3
3-4	.7	8.9	16.2	3.1	.0	.0	28.8
5-6	.2	2.7	11.3	2.7	.0	.0	16.9
7	.0	.2	5.8	5.1	.4	.0	11.5
8-9	.0	.2	1.8	2.4	.0	.0	4.7
10-11	.0	.0	.7	3.5	.4	.2	4.9
12	.0	.0	.4	.4	.2	.0	1.1
13-16	.0	.0	.4	.4	.4	.0	1.3
17-19	.0	.0	.0	.2	.0	.0	.2
20-22	.0	.0	.0	.0	.2	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.2
26-32	.0	.0	.0	.0	.2	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.3	29.5	47.0	18.0	2.0	.2	100.0
							451

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.7	10.0	18.6	7.0	3.7	1.1	.9	.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	453
6-7	.1	.9	6.2	7.7	5.5	3.5	1.4	.4	.7	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	279
8-9	.0	.2	1.5	2.0	4.4	2.6	2.2	.3	1.1	.0	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	188
10-11	.0	.0	.3	.2	.4	.6	.4	.9	.7	.3	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	10
12-13	.0	.0	.2	.5	.1	.1	.3	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17
>13	.0	.0	.0	.0	.1	.0	.4	.4	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	11
INDET	2.3	1.1	2.0	1.1	.8	.4	.1	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	96
TOTAL	43	130	302	194	157	87	64	24	34	6	4	3	3	2	0	0	0	0	0	0	1080
PCT	4.1	12.4	28.8	18.5	15.0	8.3	6.1	2.3	3.2	.6	.4	.3	.2	.0	.0	.0	.0	.0	.0	.0	100.0

NOVEMBER

PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1858-1970

AREA 0007, NOBESKA
32.1N 139.0E

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	ORZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT OB TIME	TOTAL PCPN OBS	THOR LTNO	OTHER WEATHER PHENOMENA						TOTAL OBS
				FRZG	PCPN	SNOW	OTHER FRZN PCPN				FGG	SMOKE	DUST	NO	HAZE	BLWG	STG
N	.9	.2	.3	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	23.2
NE	1.4	.1	.5	.0	.0	.0	.0	2.0	.0	.0	.2	.1	.0	.0	.0	.0	22.6
E	1.1	.4	.1	.0	.0	.0	.0	1.6	.0	.0	.1	.0	.0	.0	.0	.0	8.8
SE	.8	.1	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	3.7
S	.3	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	2.9
SW	.3	.1	.2	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	3.2
W	.2	.2	.0	.0	.0	.0	.0	.3	.0	.0	.1	.0	.0	.0	.0	.0	4.7
NW	.2	.2	.1	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	17.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	1.1
TOT OBS	177	46	45	.0	.0	.0	.0	.0	266	1	21	8	.0	1	308	.0	3382
TOT PCT	5.2	1.4	1.3	.0	.0	.0	.0	7.9		.0	.6	.2	.0	.0	.0	.0	91.2

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	ORZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT OB TIME	TOTAL PCPN OBS	THOR LTNO	OTHER WEATHER PHENOMENA						TOTAL OBS
				FRZG	PCPN	SNOW	OTHER FRZN PCPN				FGG	SMOKE	DUST	NO	HAZE	BLWG	STG
0000	3.8	1.3	1.1	.0	.0	.0	.0	6.1	.0	.0	.2	.4	.0	.0	.0	.0	93.2
0600	5.5	1.2	1.2	.0	.0	.0	.0	7.9	.0	.0	.0	.2	.0	.0	.0	.0	91.2
1200	5.7	1.6	1.6	.0	.0	.0	.0	9.1	.0	.0	1.1	.1	.1	.1	.0	.0	99.3
1800	5.1	1.4	1.4	.0	.0	.0	.0	8.7	.0	.0	.0	.1	.0	.0	.0	.0	90.3
TOT	178	49	45	.0	.0	.0	.0	7.9	270	2	22	8	.0	1	313	.0	3418
PCT	5.2	1.4	1.3	.0	.0	.0	.0	7.9		.1	.6	.2	.0	.0	.0	.0	91.1

NOVEMBER

PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1858-1970

AREA 0007 NOBESKA
32.1N 133.0E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)											
	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21					
N	1.3	9.8	11.7	3.3	.2	*	26.2	13.3	23.7	28.9	27.6	23.7	23.2	23.3	24.4	24.4	29.3					
NE	.9	9.4	10.5	3.4	.3	*	24.6	13.5	23.7	23.7	25.7	26.5	26.6	24.4	21.4	23.6	25.8					
E	.6	4.6	4.0	1.3	.1	*	10.7	17.9	9.8	9.8	12.8	9.7	12.2	10.3	11.3	6.9	9.4					
SE	.4	2.1	1.4	.8	.1	.0	4.7	17.9	4.0	4.0	4.3	4.9	4.3	3.3	3.8	4.1	4.1					
S	.3	1.2	.9	.4	*	*	2.8	12.5	2.1	1.9	1.9	4.3	2.3	3.9	3.8	3.0	3.2					
SW	.3	1.7	1.1	.2	*	.0	3.6	10.4	4.4	3.2	3.2	3.7	4.1	4.0	3.0	4.1	2.7					
W	.5	3.5	2.8	.5	.1	.0	7.4	11.7	6.8	6.4	7.8	7.8	6.7	9.8	8.0	6.4	6.4					
NW	.7	6.5	8.5	2.3	.3	*	16.4	13.8	20.1	16.6	18.2	18.2	18.3	17.2	19.1	21.4	19.6					
VAR	.0	.0	.0	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0					
CALM	1.6	16.3	16.9	5.07	51	6	1.6	.0	500	1.2	1.2	1.1	3.1	1.8	2.3	2.4	.2					
TOT OBS	277	1603	40.9	12.3	1.2	.1	100.0	12.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0					
TOT PCT	6.7	38.8	40.9	12.3	1.2	.1	100.0	12.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0					

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)											
	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21						
N	4.5	13.7	6.9	1.1	.1	26.2	13.3	23.7	28.9	27.6	23.7	23.2	23.3	23.3	24.4	24.4	29.3					
NE	4.4	12.7	6.1	1.3	.1	24.6	13.5	23.7	23.7	25.7	26.5	26.6	24.4	21.4	23.6	25.8	25.8					
E	2.4	5.2	2.6	.3	.1	10.7	17.9	9.8	9.8	12.8	9.7	12.2	10.3	11.3	6.9	9.4	9.4					
SE	1.2	2.2	.9	.3	*	4.7	17.9	4.0	4.0	4.3	4.9	4.3	4.3	3.3	3.8	4.1	4.1					
S	.8	1.3	.6	.1	*	2.8	12.5	2.1	1.9	1.9	4.3	2.3	3.9	3.8	3.0	3.2	3.2					
SW	1.5	1.6	.6	.1	*	3.6	10.4	4.4	3.2	3.2	3.7	4.1	4.0	3.0	4.1	2.7	2.7					
W	2.1	3.7	1.3	.9	*	7.4	11.7	6.8	6.4	7.8	7.8	7.8	6.7	9.8	8.0	6.4	6.4					
NW	3.0	9.2	5.2	.9	*	16.4	13.8	20.1	16.6	18.2	18.2	18.2	18.3	17.2	19.1	21.4	19.6					
VAR	.0	.0	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0					
CALM	1.6	16.3	16.9	5.07	51	1.6	.0	.0	500	1.2	1.2	1.1	3.1	1.8	2.3	2.4	.2					
TOT OBS	879	2050	1005	183	16	4133	12.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0					
TOT PCT	21.3	49.6	24.3	4.4	.4	100.0	12.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0					

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PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1856-1970

AREA 0007 NOBENKA
32.1N 133.0E

TABLE 4

HOUR	CALM	PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)				WIND SPEED (KNOTS)	PCT	TOTAL
		1-3	4-10	11-21	22-33	34-41	48+	
00003	.9	4.5	36.9	43.0	13.1	1.5	.2	13.3 100.0
06009	2.2	4.2	36.6	39.3	13.7	1.0	.0	13.0 100.0
12015	2.1	6.6	30.8	39.1	10.7	1.4	.3	12.4 100.0
18021	1.3	4.4	34.2	41.9	11.7	1.0	.1	12.9 100.0
TOT	66	21.1	140.3	168.9	50.7	5.1	.6	12.9
PCT	1.0	5.1	38.4	40.9	12.3	1.2	.1	100.0

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION							TOTAL	OBS
	0-2	3-4	5-7	8-6	9-12	13-16	17-20		
N	8.7	4.3	8.2	4.5	4.3	4.3	4.3	4.3	4.3
NE	5.8	3.5	9.4	6.5	5.0	5.0	5.0	5.0	5.0
E	1.8	1.3	3.0	4.5	5.8	5.8	5.8	5.8	5.8
SE	.8	.3	1.2	2.9	6.1	6.1	6.1	6.1	6.1
S	.3	.5	1.3	1.9	6.4	6.4	6.4	6.4	6.4
SW	1.0	.9	.8	1.8	5.4	5.4	5.4	5.4	5.4
W	2.4	1.5	2.0	1.1	4.2	4.2	4.2	4.2	4.2
NW	5.2	2.5	5.3	2.8	4.3	4.3	4.3	4.3	4.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.5	.2	.3	.1	3.0	3.0	3.0	3.0	3.0
TOT OBS	315	175	382	308	1180	1180	1180	1180	1180
TOT PCT	26.7	14.8	32.4	26.1	100.0	100.0	100.0	100.0	100.0

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT-MH 24/8)
AND OCCURRENCE OF NH 48/8 BY WIND DIRECTION

WIND DIR	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT-MH 24/8) AND OCCURRENCE OF NH 48/8 BY WIND DIRECTION												TOTAL	OBS
	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH 48/8	ANY HGT		
N	.2	.0	.3	1.3	3.7	3.0	.3	.1	.2	.1	.1	.1	16.1	16.1
NE	.3	.0	.3	1.1	4.3	4.0	.3	.1	.3	.1	.1	.1	13.8	13.8
E	.1	.0	.1	.4	3.4	1.9	.3	.0	.0	.0	.0	.0	4.8	4.8
SE	.0	.0	.0	.4	1.8	.3	.1	.0	.0	.0	.0	.0	2.1	2.1
S	.0	.0	.1	.7	1.2	.3	.1	.0	.0	.0	.0	.0	1.0	1.0
SW	.0	.0	.1	.1	1.9	.3	.1	.0	.0	.0	.0	.0	3.2	3.2
W	.0	.1	.1	.1	2.0	.3	.1	.0	.0	.0	.0	.0	3.2	3.2
NW	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	10.1	10.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS	.7	.1	.1	.6	21.7	13.7	2.6	.3	.3	.3	.3	.3	67.7	67.7
TOT PCT	.6	.1	1.0	5.8	18.4	13.3	2.2	.4	.4	.4	.4	.4	57.4	57.4
													1180	1180

PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1858-1970

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32.1N 139.0E

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	VSBY (NH) = OR >1	= OR >1/2	= OR >1/4	= OR >500	= OR >0
= OR >6500	.4	.6	.6	.6	.6	.6	.6	.6
= OR >5000	1.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3
= OR >3500	2.8	3.4	3.4	3.4	3.4	3.4	3.4	3.4
= OR >2000	13.0	16.7	16.8	16.8	16.9	16.9	16.9	16.9
= OR >1000	26.6	33.9	34.9	35.1	35.2	35.2	35.2	35.2
= OR >600	29.7	38.3	40.4	40.7	40.7	40.7	40.7	40.7
= OR >300	30.4	39.2	41.3	41.7	41.8	41.8	41.8	41.8
= OR >150	30.4	39.3	41.4	41.8	41.8	41.8	41.8	41.8
= OR > 0	30.5	39.4	41.8	42.2	42.3	42.3	42.4	42.4
TOTAL	361	466	494	499	500	501	502	502

TOTAL NUMBER OF OBS: 1183

PCT FREQ NH <5/8: 57.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
9.3	12.2	16.8	10.2	8.8	9.9	11.0	7.4	13.7	.6	1268	

PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1858-1970

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32.1N 133.0E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	.0	.1	*	.0	.0	.0	.0	.0	.0	.0	.1	
NO PCP	.1	*	.0	.0	.0	*	.0	.0	.0	.0	.1	
TOT %	.1	.1	*	.0	.0	*	.0	.0	.0	.0	.2	
PCP	*	.1	.1	*	*	*	.1	.1	.0	.0	.4	
NO PCP	*	*	.0	.1	.0	.0	.1	.1	.0	.0	.3	
TOT %	*	.1	.1	.1	*	*	.2	.2	.0	.0	.7	
PCP	.3	.2	.2	.1	.1	*	.1	.0	.0	.0	1.0	
NO PCP	.0	.0	*	*	.1	.0	.0	.0	.0	.1	.2	
TOT %	.3	.2	.2	.1	.1	*	.1	.0	.0	.1	1.2	
PCP	.3	.5	.4	.1	*	.1	.1	.1	.0	.0	1.8	
NO PCP	.2	.2	.1	*	*	.1	.0	*	.0	.0	.7	
TOT %	.4	.8	.5	.2	.1	.2	.1	.2	.0	.0	2.5	
PCP	.5	.8	.7	.5	.1	.2	.2	.2	.0	.0	3.2	
NO PCP	4.6	4.1	1.5	1.2	.7	.9	1.1	2.9	.0	.2	17.4	
TOT %	5.1	4.9	2.1	1.7	.8	1.1	1.3	3.1	.0	.2	20.6	
PCP	.3	.3	.2	.1	.1	.2	.0	*	.0	*	1.3	
NO PCP	20.7	18.4	7.3	2.5	1.7	2.2	5.6	14.4	.0	.9	73.6	
TOT %	21.0	18.7	7.5	2.6	1.8	2.4	5.6	14.4	.0	.9	74.9	
TOT OBS												3375
TOT PCT	27.0	24.8	10.5	4.7	2.8	3.8	7.3	17.9	.0	1.2	100.0	

PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1858-1970

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TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.*	.*	.*	.0	.0	.0	.0	.*	.0	.0	.1	.1
	11-21	.*	.*	.0	.0	.0	.*	.0	.*	.0	.0	.1	.1
	22+	.*	.*	.*	.0	.0	.0	.0	.0	.0	.0	.1	.1
	TOT %	.1	.1	.*	.0	.0	.*	.0	.1	.0	.0	.3	.3
1/2<1	0-3	.0	.0	.*	.0	.0	.0	.*	.0	.0	.0	.1	.1
	4-10	.1	.*	.*	.*	.*	.*	.1	.1	.0	.0	.4	.4
	11-21	.1	.*	.1	.*	.0	.0	.*	.1	.0	.0	.3	.3
	22+	.0	.1	.*	.1	.0	.0	.*	.0	.0	.0	.2	.2
	TOT %	.1	.1	.1	.1	.*	.*	.2	.2	.0	.0	.9	.9
1<2	0-3	.0	.0	.0	.0	.0	.*	.0	.0	.0	.1	.1	.1
	4-10	.1	.2	.*	.1	.*	.0	.1	.*	.0	.0	.6	.6
	11-21	.2	.1	.1	.1	.*	.*	.0	.0	.0	.0	.5	.5
	22+	.1	.1	.1	.*	.1	.0	.*	.0	.0	.0	.4	.4
	TOT %	.3	.3	.2	.2	.1	.1	.1	.*	.0	.1	1.6	1.6
2<5	0-3	.*	.*	.*	.*	.*	.1	.0	.*	.0	.0	.2	.2
	4-10	.3	.3	.3	.*	.*	.1	.1	.1	.0	.0	1.2	1.2
	11-21	.2	.6	.3	.1	.1	.1	.*	.1	.0	.0	1.6	1.6
	22+	.2	.4	.2	.*	.*	.*	.*	.*	.0	.0	1.0	1.0
	TOT %	.8	1.3	.9	.2	.1	.2	.2	.3	.0	.0	4.0	4.0
5<10	0-3	.3	.2	.2	.*	.*	.3	.2	.2	.0	.2	1.5	1.5
	4-10	1.6	1.4	.9	.5	.2	.5	.6	1.0	.0	.0	6.6	6.6
	11-21	2.1	2.1	.9	.6	.3	.2	.3	1.3	.0	.0	7.7	7.7
	22+	.7	1.0	.3	.5	.2	.1	.2	.4	.0	.0	3.4	3.4
	TOT %	4.7	4.6	2.1	1.6	.7	1.0	1.2	2.9	.0	.2	19.2	19.2
10+	0-3	.8	.7	.4	.3	.2	.1	.3	.5	.0	1.1	4.5	4.5
	4-10	7.8	7.5	3.4	1.3	.9	1.2	2.8	5.3	.0	.0	30.1	30.1
	11-21	9.2	7.8	2.7	.6	.5	.9	2.4	7.0	.0	.0	31.1	31.1
	22+	2.6	2.1	.7	.3	.1	.1	.3	2.0	.0	.0	8.2	8.2
	TOT %	20.4	18.2	7.1	2.5	1.7	2.4	5.8	14.8	.0	1.1	74.0	74.0
TOT OBS		3721											
TOT PCT		26.4	24.6	10.6	4.7	2.8	3.8	7.5	18.2	.0	1.5	100.0	

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PERIOD: (PRIMARY) 1933-1970
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL ANY HGT	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	.3	.9	4.8	21.6	14.4	1.8	.6	.0	.3	44.6	55.4	334
06009	1.3	.0	1.3	5.0	20.6	13.1	2.8	.6	.3	.9	45.9	54.1	320
12015	.4	.0	1.0	7.7	15.0	11.8	1.7	1.0	.3	.3	39.4	60.6	287
18021	.7	.0	.7	5.1	12.3	12.0	2.1	.3	.0	.0	33.2	66.8	292
TOT PCT	7 .6	1 .1	12 1.0	69 5.6	217 17.6	159 12.9	26 2.1	8 .6	2 .2	5 .4	506 41.0	727 59.0	1233 100.0

TABLE 11

PERCENT FREQUENCY VS8Y (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.0	.6	2.5	11.8	85.0	321
06009	.3	.3	1.3	2.6	16.3	79.1	306
12015	.4	.4	.4	3.2	18.8	76.9	277
18021	.4	.0	.4	3.6	12.1	83.6	280
TOT PCT	3 .3	2 .2	8 .7	35 3.0	174 14.7	962 81.3	1184 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS8Y (NM) AND/OR
CEILING HGT (FEET, NM) >4/8 BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	1.2	8.1	38.3	53.6	321
06009	1.6	2.9	9.8	38.9	51.3	306
12015	.4	2.2	11.9	29.6	56.5	277
18021	.7	1.4	8.6	27.5	63.9	280
TOT PCT	8 .7	23 1.9	113 9.5	401 33.9	670 56.6	1184 100.0

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TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	.0	.1	.0	.0	.0	1	.1
75/79	.0	.0	.1	.3	.9	1.2	1.2	.2	45	3.9
70/74	.1	.4	.9	2.7	7.1	6.4	6.1	3.2	313	26.9
65/69	.0	.5	1.2	7.5	10.1	7.6	5.1	4.6	425	36.5
60/64	.0	.0	1.0	4.7	8.5	5.0	1.8	1.5	263	22.6
55/59	.0	.0	.3	1.0	3.3	1.1	.3	.2	77	6.6
50/54	.0	.0	.0	.8	1.8	.1	.3	.2	36	3.1
45/49	.0	.0	.0	.2	.2	.0	.0	.0	4	.3
TOTAL	1	11	41	199	373	249	172	118	1164	100.0
PCT	.1	.9	3.5	17.1	32.0	21.4	14.8	10.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
80/84	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
75/79	.4	.6	.6	.4	.5	.9	.3	.2	.0	.0
70/74	3.7	7.3	4.5	2.6	1.9	1.9	2.1	2.8	.0	.2
65/69	10.1	11.3	4.5	.8	1.1	.8	2.9	4.7	.0	.4
60/64	8.4	6.3	1.2	.3	.1	.2	1.3	4.3	.0	.4
55/59	2.1	.7	.3	.1	.0	.2	.4	2.9	.0	.0
50/54	1.6	.4	.0	.0	.0	.1	.0	1.4	.0	.0
45/49	.4	.0	.0	.0	.0	.0	.0	.3	.0	.0
TOTAL	26.3	26.2	11.1	4.3	3.6	4.0	6.9	16.6	.0	1.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	82	77	74	66	55	50	46	65.6	1159
06009	80	76	74	66	55	52	50	65.3	919
12015	83	75	73	64	54	50	44	64.2	1109
18021	82	75	73	64	54	50	45	63.4	919
TOT	83	76	73	64	54	50	44	64.7	4106

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.3	22.3	32.0	22.0	13.4	10.1	69	337
06009	.0	23.3	31.6	21.5	13.1	10.5	70	275
12015	.0	21.8	31.3	20.1	14.6	12.2	70	294
18021	.0	20.3	32.8	21.8	18.1	7.0	70	271
TOT	1	258	316	251	173	118	70	1177

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(OVER-ALL) 1858-1970

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (HOURS) PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	41	45	49	53	57	61	65	69	73	77	81	TOT	W FOG	WD FOG
11/13	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	5	.0	.2
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	.0	.1
6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	.0	.3
4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	.0	.7
3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	.0	.2
2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	51	.0	1.6
1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	.0	.5
-1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	138	.0	4.3
-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	53	.0	1.7
-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	243	.0	7.6
-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	109	.0	3.4
-5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	349	.1	10.8
-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	395	.2	12.3
-7/-8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	116	.0	3.6
-9/-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	544	.1	17.0
-11/-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	416	.1	13.0
-14/-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	431	.1	13.5
-17/-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	183	.1	5.7
-20/-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	55	.0	1.7
-23/-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	.0	.7
TOTAL	1	10	69	200	365	960	744	567	230	30	4	3180	21	3159
PCT	.3	2.2	6.3	11.5	30.2	23.4	17.8	7.2	.9	.1	.1	100.0	.7	99.3

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TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	1.0	.0	.0	.0	.0	1.7	.1	1.4	.0	.0	.0	.0	1.4
1-2	.4	2.5	2.3	.0	.0	.0	5.2	.3	3.3	2.0	.0	.0	.0	5.6
3-4	.0	3.2	5.4	.6	.0	.0	9.3	.2	1.3	5.2	.9	.0	.0	7.6
5-6	.0	1.1	3.4	1.6	.0	.0	6.1	.0	.5	3.4	1.6	.0	.0	5.5
7	.0	.0	2.1	.6	.0	.0	2.7	.0	.0	.5	.4	.0	.0	.9
8-9	.0	.0	.2	.2	.0	.0	.4	.0	.0	.1	.9	.2	.0	1.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
12	.0	.0	.2	.4	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	7.9	13.6	3.5	.0	.0	26.1	.5	6.5	11.4	3.7	.2	.0	22.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.0	.2	.0	.0	.0	1.2	.1	.2	.0	.0	.0	.0	.3
1-2	.4	2.5	1.3	.0	.0	.0	4.3	.2	.6	1.0	.0	.0	.0	1.9
3-4	.0	.9	1.5	.2	.0	.0	2.6	.0	.9	.1	.0	.0	.0	1.0
5-6	.0	.2	.7	.2	.0	.0	1.1	.0	.0	.1	.4	.0	.0	.5
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.2	.0	.0	.0	.2	.0	.0	.3	.0	.0	.0	.3
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	4.7	4.0	.4	.0	.0	9.6	.3	1.8	1.5	.4	.0	.0	4.0

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TABLE 18
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PERIOD: (OVER-ALL) 1964-1970

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.2	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0
1-2	.2	2.2	1.0	.0	.0	.0	3.4	.0	1.0	.0	.0	.0	.0	1.0
3-4	.0	.0	.5	.2	.0	.0	.8	.2	.2	1.4	.2	.0	.0	2.1
5-6	.0	.0	.5	.4	.0	.0	.9	.0	.0	1.2	.1	.0	.0	1.2
7	.0	.0	.2	.2	.0	.0	.3	.0	.0	.2	.5	.0	.0	.7
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	2.4	2.2	.8	.0	.0	6.0	.2	1.2	2.8	.8	.0	.0	5.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.0	.0	.0	.0	.4	.1	.3	.0	.0	.0	.0	.8
1-2	.0	1.4	1.2	.0	.0	.0	2.6	.2	2.4	1.4	.0	.0	.0	3.9
3-4	.0	.9	1.0	.0	.0	.0	1.8	.0	2.1	3.2	.2	.0	.0	5.5
5-6	.0	.0	1.8	.2	.0	.0	2.0	.0	.3	2.2	1.0	.0	.0	3.4
7	.0	.0	.2	.4	.0	.0	.6	.0	.0	1.4	.5	.0	.0	1.8
8-9	.0	.0	.2	.2	.0	.0	.4	.0	.0	.6	1.1	.2	.0	1.9
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.6	4.4	.8	.0	.0	7.9	.3	5.5	8.8	3.2	.4	.0	18.1

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PERIOD: (OVER-ALL) 1963-1970

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)							TOT DBS
	0-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	2.6	4.9	.2	.0	.0	.0	7.7	
1-2	1.7	15.9	10.1	.0	.0	.0	27.7	
3-4	.6	9.5	18.3	2.4	.0	.0	30.8	
5-6	.0	2.2	13.1	5.4	.0	.0	20.6	
7	.0	.0	4.5	2.6	.0	.0	7.1	
8-9	.0	.0	1.3	2.4	.4	.0	4.1	
10-11	.0	.0	.2	.4	.0	.0	.6	
12	.0	.0	.4	.4	.0	.0	1.1	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.2	.0	.2	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.9	32.5	48.4	13.5	.6	.0	100.0	
							465	

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.3	14.3	22.0	9.9	3.0	1.0	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	512	3
6-7	.0	1.3	5.6	8.4	4.2	1.8	.9	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	220	5
8-9	.0	.2	1.0	2.6	2.4	2.0	.9	1.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	99	7
10-11	.0	.0	.3	.4	.6	.7	.4	.4	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	29	9
12-13	.0	.0	.1	.3	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	8
>13	.0	.0	.0	.0	.0	.0	.1	.0	.0	.2	.1	.0	.1	.1	.0	.0	.0	.0	.0	3	18
INDET	2.9	1.2	2.1	.9	.8	1.1	.2	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	93	4
TOTAL	50	165	301	218	107	66	28	15	12	1	1	2	1	0	0	0	0	0	0	967	4
PCT	5.2	17.1	31.1	22.5	11.1	6.8	2.9	1.6	1.2	.1	.1	.2	.1	.0	.0	.0	.0	.0	.0	100.0	

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PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1868-1970

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TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE				HAIL	PCT FREQ PCPN AT OB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				FRZG	SNOW	OTHER	FRZN PCPN					PCPN	FOG	SMOKE	DUST	NO	
N	.8	.2	.4	.0	.0	.0	.0	.0	1.4		*	.1	.1	.1	.0	20.8	
NE	1.0	.1	.6	.0	.0	.0	.0	.0	1.6		.0	.1	.1	.0	.0	12.1	
E	.5	.1	.3	.0	.0	.0	.0	.0	.9		*	.1	.1	.0	.0	4.9	
SE	.4	.0	*	.0	.0	.0	.0	.0	.4		.0	.1	.1	.0	.0	2.1	
S	.3	*	.2	.0	.0	.0	.0	.0	.5		.0	*	*	*	.0	1.6	
SW	.3	.1	.1	.0	.0	.0	.0	.0	.5		.0	.1	.1	*	.0	2.6	
W	.3	.1	.2	.0	.0	.0	.0	.0	.5		*	.1	.1	.0	.0	10.1	
NW	.6	*	.2	.0	.0	.0	.0	.0	.8		.1	.2	*	*	.0	31.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	*	.0	.0	.0	.0	.0	.0	.0	*		.0	*	.0	.0	.0	.7	
TOT OBS	146	20	68	0	0	0	0	0	*	224	5	31	6	0	0	3096	3361
TOT PCT	4.3	.6	2.0	.0	.0	.0	.0	.0	6.7		.1	.9	.2	.0	.0	92.1	

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE				HAIL	PCT FREQ PCPN AT OB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				FRZG	SNOW	OTHER	FRZN PCPN					PCPN	FOG	SMOKE	DUST	NO	
0003	4.0	.7	1.3	.0	.0	.0	.0	.0	5.8		.0	.8	.1	.1	.0	93.3	
0609	4.6	.2	2.0	.0	.0	.0	.0	.0	6.7		.0	.5	.4	.0	.0	92.4	
1215	4.0	1.0	2.1	.0	.0	.0	.0	.0	6.6		.7	1.8	.1	.0	.0	91.0	
1821	4.7	.6	3.0	.0	.0	.0	.0	.0	7.9	230	.1	.6	.1	.1	.0	91.2	
TOT	147	22	71	0	0	0	0	0	32		7	32	6	0	0	3133	3406
PCT	4.3	.6	2.1	.0	.0	.0	.0	.0	6.8		.2	.9	.2	.0	.0	92.0	

DECEMBER

PERIOD: (PRIMARY) 1933-1970
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TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)				
	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD		00	03	06	09	12
N	.9	11.4	12.6	3.0	.1	*	28.0	12.9	29.8	30.4	24.7	20.8	25.2	25.2	25.2
NE	.8	6.8	5.2	1.6	*	*	14.4	12.0	12.8	10.1	15.6	16.1	12.9	15.4	15.4
E	.5	3.0	2.1	.3	.0	*	6.0	10.4	6.1	6.2	6.7	5.0	8.2	6.0	6.0
SE	.2	1.6	.9	.2	.0	.0	2.9	10.3	3.8	3.1	2.5	2.5	3.5	2.3	2.3
S	.3	1.2	.6	.1	*	.0	2.3	10.3	.9	2.4	3.5	1.6	3.9	1.8	3.2
SW	.4	1.4	1.0	.4	.1	.0	4.3	11.9	3.9	2.2	3.7	3.2	3.9	4.2	4.2
W	.5	3.7	4.5	1.6	.2	.0	10.5	13.9	10.1	8.9	11.1	12.8	12.7	9.0	12.0
NW	.8	11.0	14.6	4.6	.4	.0	31.5	14.1	31.3	29.7	31.0	30.8	28.7	31.3	33.8
VAR	.0	.0	.0	.0	.0	.0	1.1	.0	1.4	.0	.0	.0	.0	.0	.0
CALM	1.1	1638	1695	486	34	3	4087	12.8	431	704	397	510	414	685	411
TOT OBS	231	40.1	41.5	11.9	.8	.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
TOT PCT	5.7														

TABLE 3A

WIND DIR		WIND SPEED (KNOTS)					41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		0-6	7-16	17-27	28-40						00	03	06	09	12
N	5.1	14.8	7.1	1.1		*	28.0	12.9	30.1	25.9	27.4	28.3	28.3	28.3	28.3
NE	3.4	7.4	3.2	.4		*	14.4	12.0	14.9	15.8	14.5	12.5	12.5	12.5	12.5
E	1.9	3.2	.8	*		*	6.0	10.4	6.2	5.8	6.8	4.9	4.9	4.9	4.9
SE	1.0	1.4	.5	.0		.0	2.9	10.3	3.4	2.5	2.8	2.8	2.8	2.8	2.8
S	.9	1.0	.3	.1		*	2.3	10.3	1.8	2.4	2.5	2.5	2.5	2.5	2.5
SW	1.2	1.3	.7	.2		*	3.3	11.9	2.8	3.4	4.1	2.9	2.9	2.9	2.9
W	2.0	4.9	2.9	.7		*	10.5	13.9	9.4	12.1	10.4	10.4	10.4	10.4	10.4
NW	3.8	16.7	9.1	1.8		.1	31.5	14.1	30.3	30.9	30.3	34.7	34.7	34.7	34.7
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.1	2073	1004	175		8	1.1	.0	1.1	1.2	1.1	1.1	1.1	1.1	1.1
TOT OBS	82	20.2	50.7	4.3		.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
TOT PCT															

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PERIOD: (PR:MARY) 1933-1970
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00003	1.1	3.3	38.9	41.4	13.8	1.2		.2	13.5	100.0	1135
06009	1.2	6.2	39.8	40.2	11.7	.8		.1	12.6	100.0	907
12015	1.1	5.6	40.5	40.7	11.4	.8		.0	12.5	100.0	1099
18021	.8	3.5	41.2	43.7	10.4	.4		.0	12.7	100.0	946
TOT	44	187	1638	1695	486	34		3	12.8		4087
PCT	1.1	4.6	40.1	41.5	11.9	.8		.1		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	PCT FREQ						TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8-6	DBSCD			
N	8.3	5.4	9.6	4.7			4.4	
NE	2.2	2.3	2.9	4.1			5.3	
E	.6	1.0	1.4	3.6			6.2	
SE	.5	.3	.6	1.6			6.3	
S	.4	.4	.8	1.1			5.8	
SW	.8	.3	1.1	1.4			5.5	
W	3.3	2.3	4.2	2.4			4.5	
NW	8.3	5.0	13.2	5.1			4.5	
VAR	.0	.0	.0	.0			.0	
CALM	.4	.2	.2	.0			2.7	
TOT OBS	244	171	335	236			986	
TOT PCT	24.7	17.3	34.0	23.9			100.0	

TABLE 6

PERCENTAGE FREQUENCY OF GILLING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	PERCENTAGE FREQUENCY OF GILLING HEIGHTS (FT, NH >4/8)												TOTAL OBS	ANY HGT	NH <5/8	TOTAL OBS	
	0-2	3-4	5-7	8-6	DBSCD												
N	8.3	5.4	9.6	4.7									4.3	1.2	.4	.1	17.6
NE	2.2	2.3	2.9	4.1									1.6	.6	.1	.1	5.8
E	.6	1.0	1.4	3.6									1.2	.3	.0	.1	2.3
SE	.5	.3	.6	1.6									.8	.1	.0	.0	.9
S	.4	.4	.8	1.1									.3	.2	.1	.0	1.3
SW	.8	.3	1.1	1.4									.6	.2	.0	.0	1.3
W	3.3	2.3	4.2	2.4									1.9	.2	.1	.0	7.0
NW	8.3	5.0	13.2	5.1									4.9	1.2	.1	.0	17.7
VAR	.0	.0	.0	.0									.0	.0	.0	.0	.0
CALM	.4	.2	.2	.0									.0	.0	.0	.0	.7
TOT OBS	244	171	335	236									154	40	11	2	542
TOT PCT	24.7	17.3	34.0	23.9									15.6	4.1	1.1	.3	59.0
																	986
																	100.0

PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1868-1970

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TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NM)					
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4
= OR >6500	.4	.5	.5	.5	.5	.5
= OR >5000	1.1	1.6	1.6	1.6	1.6	1.6
= OR >3500	4.8	5.7	5.7	5.7	5.7	5.7
= OR >2000	17.6	21.0	21.4	21.5	21.5	21.5
= OR >1000	28.7	34.9	36.1	36.2	36.2	36.3
= OR >600	33.6	42.1	43.8	43.9	43.9	44.0
= OR >300	33.7	42.4	44.1	44.2	44.2	44.3
= OR >150	33.8	42.5	44.3	44.4	44.4	44.5
= OR >0	34.2	42.9	44.7	44.8	44.8	44.9
TOTAL	337	423	440	441	441	442

TOTAL NUMBER OF OBS: 985

PCT FREQ NH <5/8: 55.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	8.0	10.4	15.5	9.8	10.3	9.2	13.6	7.3	15.4	.5	1062

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PERIOD: (PRIMARY) 1933-1970
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	*	*	*	.0	*	*	.0	.0	.0	.0	.1	
<1/2 NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT %	*	*	*	.0	*	*	.0	.0	.0	.0	.1	
PCP	*	.0	.0	.0	*	.0	.0	.0	.0	.0	.1	
1/2<1 NO PCP	.1	*	.1	.1	*	.1	.1	.1	.0	.0	.6	
TOT %	.1	*	.1	.1	*	.1	.1	.1	.0	.0	.6	
PCP	*	.2	.1	.1	.1	.1	.0	*	.0	.0	.6	
1<2 NO PCP	*	*	*	.0	.0	.0	.0	*	.0	.0	.1	
TOT %	.1	.2	.1	.1	.1	.1	.0	.1	.0	.0	.7	
PCP	.3	.4	.1	.1	.1	.1	.1	.1	.0	.0	1.3	
2<5 NO PCP	.2	.1	*	*	*	*	.1	.3	.0	.0	.7	
TOT %	.5	.5	.2	.1	.1	.1	.1	.4	.0	.0	2.1	
PCP	.5	.6	.5	.2	.2	.2	.3	.3	.0	*	2.9	
5<10 NO PCP	4.1	2.5	1.1	.7	.4	.8	2.5	5.6	.0	.1	17.7	
TOT %	4.5	3.1	1.5	.9	.6	1.0	2.7	6.1	.0	.1	20.6	
PCP	.5	.3	.2	.1	.1	.1	.2	.2	.0	.0	1.6	
10+ NO PCP	22.7	9.6	3.9	1.4	1.2	1.8	7.7	25.4	.0	.7	74.3	
TOT %	23.2	9.9	4.0	1.5	1.3	1.9	7.8	25.6	.0	.7	75.9	
TOT OBS												3380
TOT PCT	28.5	13.7	5.9	2.7	2.2	3.2	10.8	32.3	.0	.8	100.0	

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TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSRY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	#	.0	.0	#	.0	#	.0	.0	.0	.0	.1	.1
	4-10	.1	#	#	.0	.0	.0	#	.1	.0	.0	.2	.2
	11-21	.1	#	.0	.0	#	.0	.0	.0	.0	.0	.1	.1
	22+	#	#	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.2	.1	#	#	#	.1	#	.2	.0	.0	.6	.6
1/2<1	0-3	#	#	.0	#	#	.1	#	.0	.0	.0	.2	.2
	4-10	.1	#	.1	.1	#	.0	.1	#	.0	.0	.4	.4
	11-21	.1	.0	.0	.0	.0	.0	.1	.1	.0	.0	.2	.2
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	#	#
	TOT %	.1	.1	.1	.1	.1	.1	.2	.1	.0	.0	.8	.8
1<2	0-3	.0	.0	.0	#	.0	#	.0	.0	.0	.0	.1	.1
	4-10	#	#	.1	.1	#	#	.0	#	.0	.0	.2	.2
	11-21	.1	.1	.1	.1	#	#	.0	.1	.0	.0	.4	.4
	22+	.1	.1	#	.0	.1	.0	.0	#	.0	.0	.3	.3
	TOT %	.2	.2	.1	.1	.1	.1	#	.2	.0	.0	1.1	1.1
2<5	0-3	#	.0	.0	.0	.0	.0	.0	#	.0	#	.1	.1
	4-10	.4	.3	.1	.1	.1	#	.1	.4	.0	.0	1.4	1.4
	11-21	.4	.3	.1	.1	#	.1	.1	.2	.0	.0	1.3	1.3
	22+	.1	.1	#	#	.1	#	#	.1	.0	.0	.6	.6
	TOT %	.8	.7	.3	.2	.2	.2	.2	.8	.0	#	3.4	3.4
5<10	0-3	.4	.2	.2	.1	.1	.2	.3	.4	.0	.1	2.0	2.0
	4-10	1.5	1.3	.7	.4	.2	.2	1.1	2.2	.0	.0	7.6	7.6
	11-21	1.8	1.1	.5	.4	.2	.3	.7	1.9	.0	.0	6.9	6.9
	22+	.5	.5	.1	.1	#	.1	.4	1.0	.0	.0	3.7	3.7
	TOT %	4.2	3.1	1.4	.9	.6	.9	2.5	5.6	.0	.1	19.2	19.2
10+	0-3	.6	.6	.3	.1	.2	.1	.2	.5	.0	.8	3.4	3.4
	4-10	9.4	5.1	2.1	1.0	.8	1.1	2.7	8.5	.0	.0	30.7	30.7
	11-21	10.4	3.7	1.3	.3	.3	.6	3.5	12.3	.0	.0	32.5	32.5
	22+	2.3	.8	.2	.1	.0	.3	1.3	3.4	.0	.0	8.3	8.3
	TOT %	22.7	10.1	4.0	1.6	1.3	2.1	7.7	24.7	.0	.8	74.9	74.9
TOT OBS		3711											
TOT PCT		28.2	14.3	5.8	2.9	2.3	3.4	10.7	31.5	.0	.9	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	.7	.0	.4	4.4	18.0	17.6	3.7	1.5	.4	.7	47.4	52.6	272
06009	.4	.4	.4	5.8	11.9	13.8	5.8	.8	.4	.4	40.0	60.0	260
12015	.4	.0	.0	9.6	14.0	14.5	3.1	1.3	.0	.0	43.0	57.0	228
18021	.8	.4	.4	9.9	14.5	14.9	3.4	.8	.0	.0	43.0	55.0	262
TOT PCT	6 .6	2 .2	3 .3	75 7.3	150 14.7	156 15.3	41 4.0	1.1 1.1	2 .2	3 .3	449 43.9	573 56.1	1022 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	< 1/2	1/2 < 1	1 < 2	2 < 5	5 < 10	10+	TOTAL OBS
00003	.4	.0	.0	.4	8.8	90.5	262
06009	.0	.4	.0	1.6	13.5	84.5	251
12015	.0	.0	.5	1.8	18.7	79.0	219
18021	.0	.4	.0	3.9	15.3	80.4	255
TOT PCT	1 .1	2 .2	1 .1	19 1.9	137 13.9	827 83.8	987 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH > 4/8), BY HOUR

HOUR (GMT)	< 150 < 50YD	< 600 < 1	< 1000 < 5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	.8	1.5	6.5	42.0	51.5	262
06009	.4	1.6	8.8	33.1	58.2	251
12015	.9	.9	13.2	31.1	55.7	219
18021	.8	1.2	13.7	32.5	53.7	255
TOT PCT	7 .7	13 1.3	103 10.4	344 34.9	540 54.7	987 100.0

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TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ	N	NE	E	SE	S	SW	W	NW	VAR	CALM
75/79	.0	.0	.0	.0	.0	.0	.2	.0	2	.2	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0
70/74	.0	.0	.0	.3	.5	.3	.3	.0	16	1.5	.1	.3	.2	.3	.3	.4	.2	.1	.0	.0
65/69	.0	.0	.4	2.4	3.6	3.6	1.9	1.4	138	13.3	1.9	1.2	2.0	.7	.9	1.8	2.5	2.3	.0	.0
60/64	.0	.0	2.3	6.5	8.8	6.0	3.9	2.6	313	30.1	8.3	3.8	3.1	1.2	.6	1.6	3.9	7.4	.0	.0
55/59	.0	.0	1.8	6.7	10.2	6.3	3.1	1.3	306	29.4	9.2	3.3	1.9	.5	.7	.4	3.1	9.4	.0	.2
50/54	.0	.1	.8	5.4	5.9	2.4	2.6	.9	187	18.0	5.1	1.0	.2	.0	.1	.1	2.4	9.2	.0	.8
45/49	.0	.0	.7	1.5	2.0	1.4	.6	.3	68	6.5	2.5	.2	.0	.0	.1	.0	.5	3.4	.0	.0
40/44	.0	.2	.3	.3	.3	.1	.0	.1	10	1.0	.0	.1	.0	.0	.0	.0	.3	.5	.0	.0
TOTAL	.0	.1	.64	24.1	32.4	20.8	13.1	7.1	1040	100.0	27.0	10.0	7.4	2.7	2.8	4.0	12.8	32.3	.0	1.0
PCT	.0	.1	6.2	23.2	31.2	20.0	12.6	6.8												

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	77	72	68	58	47	43	38	57.9	1129
06009	76	71	68	58	47	43	39	58.0	910
12015	72	69	66	57	46	41	36	56.3	1102
18021	77	70	66	55	45	41	36	55.8	946
TOT	77	70	67	57	46	43	36	57.0	4087

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	28.0	34.1	19.9	11.8	6.1	67	296
06009	.0	38.7	31.3	16.9	9.5	3.7	64	243
12015	.0	22.7	32.8	19.8	17.8	6.9	69	247
18021	.0	28.2	26.7	22.9	12.0	10.2	69	266
TOT	0	308	329	210	134	71	68	1052

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TABLE 17
PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	33	37	41	45	49	53	57	61	65	69	73	77	TOT	W FOG	MO FOG
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	5	.0	.2
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	.0	.1
7/8	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	5	.0	.1
5	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	10	.0	.2
4	.0	.0	.0	.0	.0	.1	.0	.1	.0	.1	.1	.0	10	.0	.3
3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	4	.0	.1
2	.0	.0	.0	.0	.0	.1	.2	.3	.2	.4	.1	.0	38	.0	1.2
1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	5	.0	.2
0	.0	.0	.0	.1	.1	.1	.1	.6	.4	.6	.0	.0	64	.0	2.0
-1	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	.0	.0	14	.0	.4
-2	.0	.0	.0	.0	.2	.3	.3	1.6	.8	.4	.0	.0	115	.0	3.6
-3	.0	.0	.0	.0	.0	.0	.1	.1	.2	.1	.0	.0	19	.0	.6
-4	.0	.0	.0	.0	.0	.0	.1	.2	1.6	.2	.0	.0	215	.1	6.6
-5	.0	.0	.0	.2	.4	.4	1.3	3.8	1.6	.3	.0	.0	274	.1	8.5
-6	.0	.0	.0	.0	.0	.1	.2	.5	.5	.1	.0	.0	46	.0	1.4
-7/-8	.0	.0	.0	.0	.5	1.7	3.5	4.5	1.3	.1	.0	.0	378	.1	11.7
-9/-10	.0	.0	.0	.6	1.0	2.7	3.6	3.9	.8	.1	.0	.0	407	.2	12.5
-11/-13	.0	.1	.2	1.4	3.6	6.6	6.8	3.2	.1	.0	.0	.0	706	.2	21.8
-14/-16	.0	.0	.3	2.6	4.0	4.4	3.2	.4	.0	.0	.0	.0	481	.2	14.8
-17/-19	.0	.0	.3	1.6	1.8	1.9	.8	.0	.0	.0	.0	.0	205	.0	6.4
-20/-22	.0	.1	.7	1.8	1.6	.4	.0	.0	.0	.0	.0	.0	166	.0	4.5
-23/-25	.0	.1	.2	.5	.5	.1	.0	.0	.0	.0	.0	.0	45	.0	1.4
-26/-30	.0	.0	.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	13	.0	.4
TOTAL	2	11	59	305	455	640	685	702	255	83	12	1	3210	29	3181
PCT	.1	.3	1.8	9.5	14.2	19.9	21.3	21.9	7.9	2.6	.4	.0	100.0	.9	99.1

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.9	.0	.0	.0	.0	1.1	.3	1.0	.0	.0	.0	.0	1.3
1-2	.2	4.4	3.3	.0	.0	.0	8.0	.5	3.2	.8	.0	.0	.0	4.5
3-4	.0	2.7	4.5	.0	.0	.0	8.1	.3	2.3	2.0	.0	.0	.0	4.5
5-6	.0	.2	4.0	.4	.0	.0	4.7	.0	.3	.4	.0	.0	.0	.6
7	.0	.2	.9	1.1	.0	.0	2.3	.0	.1	.5	.0	.0	.0	.6
8-9	.0	.0	.0	.8	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.3	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	8.4	13.1	3.3	.0	.0	25.1	1.0	6.9	3.7	.5	.0	.0	12.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.2	.3	.0	.0	.0	1.5	.0	.6	.0	.0	.0	.0	.6
1-2	.5	2.1	1.4	.0	.0	.0	4.0	.0	.9	.5	.0	.0	.0	1.5
3-4	.0	.8	1.6	.3	.0	.0	2.7	.0	.0	.1	.0	.0	.0	.1
5-6	.0	.3	.3	.3	.0	.0	.5	.0	.0	.3	.0	.0	.0	.3
7	.0	.0	.2	.3	.0	.0	.4	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	4.3	3.5	.8	.0	.0	9.0	.0	1.6	.9	.3	.0	.0	2.7

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 TABLE 18
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PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.6	.0	.0	.0	.0	.8	.1	.1	.0	.0	.0	.0	.2
1-2	.0	.6	.3	.0	.0	.0	.9	.0	.9	.1	.0	.0	.0	1.0
3-4	.0	.0	.2	.0	.0	.0	.2	.0	.5	.7	.9	.0	.0	2.1
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.5
7	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.3	.0	.0	.3
8-9	.0	.0	.2	.2	.0	.0	.4	.0	.0	.1	.1	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.2	.6	.4	.0	.0	2.4	.1	1.6	1.3	1.3	.0	.0	4.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.0	.0	.0	.0	.4	.3	1.6	.0	.0	.0	.0	2.0
1-2	.0	1.6	1.7	.0	.0	.0	3.3	.1	3.6	3.5	.0	.0	.0	7.2
3-4	.0	.9	3.0	1.3	.0	.0	5.2	.0	4.2	6.9	.6	.0	.0	11.7
5-6	.0	.0	1.5	.0	.3	.0	1.7	.0	.1	3.0	2.3	.0	.0	5.4
7	.0	.0	.4	.0	.0	.0	.4	.0	.0	1.2	1.1	.0	.0	2.3
8-9	.0	.0	.0	.3	.0	.0	.3	.0	.0	.3	.8	.0	.0	.5
10-11	.0	.0	.3	.5	.3	.0	1.0	.0	.0	.0	.5	.0	.0	.5
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.5
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.9	6.8	2.1	.5	.0	12.3	.4	9.5	14.8	6.1	.3	.0	31.1

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PERIOD: (OVER-ALL) 1963-1970

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)							TOT OBS
	0-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	3.0	6.5	.3	.0	.0	.0	9.8	
1-2	1.3	17.3	11.5	.0	.0	.0	30.0	
3-4	.3	11.3	18.8	4.0	.0	.0	34.3	
5-6	.0	.8	9.5	3.0	.3	.0	13.5	
7	.0	.3	3.3	3.0	.0	.0	6.5	
8-9	.0	.0	.5	1.5	.0	.0	2.0	
10-11	.0	.0	.5	1.5	.3	.0	2.3	
12	.0	.0	.0	1.0	.0	.0	1.0	
13-16	.0	.0	.0	.5	.0	.0	.5	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.3	.0	.3	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.5	36.0	44.3	14.5	.8	.0	100.0	
							400	

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERIOD (SEC)	PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)																		
	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+
<6	3.5	18.2	25.0	8.1	2.3	.4	1.0	.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6-7	.1	1.3	7.6	5.5	3.2	1.8	.4	.3	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.4	.9	1.8	1.8	1.7	1.2	.9	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.3	.0	.4	.6	.3	.3	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12-13	.0	.0	.4	.1	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
INDET	3.8	1.7	1.4	1.2	.4	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	58	170	275	133	65	34	25	14	6	0	0	1	0	0	0	0	0	0	0
PCT	7.4	21.8	35.2	17.0	8.3	4.4	3.2	1.8	.8	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0

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TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			MAIL	PCT FREQ PCPN AT 08 TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				FRZG	SNOW	OTHER FRZN PCPN					FG	SMOKE	DUST	NO	SIG WEA	
N	1.0	.1	.4	.0	*	.0	.0	1.4		*	.2	.1	*	16.5		
NE	1.7	.2	.5	*	.0	.0	.0	2.3		.1	.2	.1	*	14.7		
E	1.4	.2	.4	*	.0	.0	.0	1.9		*	.2	.1	*	9.5		
SE	1.0	.2	.2	.0	.0	.0	.0	1.3		*	.1	.1	*	6.1		
S	.9	.2	.3	*	.0	.0	.0	1.2		.1	.2	.1	*	6.2		
SW	.6	.1	.2	*	.0	.0	.0	.9		.1	.2	.1	*	8.3		
W	.3	.1	.1	.0	*	.0	*	.5		*	.2	.1	.0	9.0		
NW	.4	.1	.1	.0	*	.0	.0	.6		*	.2	.1	*	15.6		
VAR	.0	.0	.0	.0	.0	.0	.0	.0		*	.0	.0	.0	.0		
CALM	*	*	*	.0	.0	.0	.0	.1		*	.1	.1	.0	1.3		
TOT OBS	3286	545	987	11	14	0	15	4688		156	729	372	8	39072		44989
TOT PCT	7.2	1.2	2.1	*	*	.0	*	10.3		.4	1.6	.8	*	87.1		

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			MAIL	PCT FREQ PCPN AT 08 TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				FRZG	SNOW	OTHER FRZN PCPN					FG	SMOKE	DUST	NO	SIG WEA	
0003	6.7	1.4	1.8	*	*	.0	.1	9.7		.1	1.5	.9	.0	87.8		
0609	7.2	.9	2.1	*	*	.0	*	9.9		.1	1.5	1.0	*	87.5		
12015	6.8	1.4	2.3	*	.1	.0	*	10.2		.6	1.9	.8	*	86.5		
18021	8.1	1.2	2.5	*	*	.0	*	11.5	4766	.6	1.6	.5	*	85.9		
TOT	3332	563	1002	11	14	0	15	4766		163	752	386	8	39487		45523
PCT	7.2	1.3	2.2	*	*	.0	*	10.3		.4	1.6	.8	*	87.0		

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TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)				
	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15
N	1.0	7.2	7.5	2.2	.2	*	18.1	12.2	19.1	19.7	16.1	15.8	15.2	17.9	17.7
NE	1.1	7.2	6.8	2.2	.2	*	17.7	12.4	18.4	19.8	18.4	16.4	16.2	16.0	16.1
E	.9	5.2	4.3	1.3	.1	*	11.8	12.0	10.7	12.6	11.8	13.4	12.3	11.9	10.5
SE	.7	3.8	2.4	.6	.1	*	7.7	11.4	7.4	7.6	8.0	8.2	8.0	8.3	7.5
S	.8	3.9	2.4	.6	.1	*	7.8	11.5	7.3	6.7	8.9	8.7	9.3	7.8	8.1
SW	.9	4.6	3.3	.7	.1	*	9.5	11.3	9.4	7.9	11.1	11.5	11.5	9.3	9.8
W	.8	4.2	3.3	1.0	.1	*	9.4	11.8	9.8	8.4	9.6	9.7	10.4	9.7	10.2
NW	.8	6.0	6.8	2.3	.3	*	16.1	12.1	16.4	15.6	14.2	14.6	14.4	16.9	16.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.9	2.9	2.0	.0	.0	.0	1.9	.0	1.5	1.7	2.0	1.7	2.6	2.1	3.2
TOT OBS	4842	2236	20057	5962	676	72	54545	12.1	5750	9431	5517	6918	5491	9076	5008
TOT PCT	8.8	42.1	36.8	10.9	1.2	.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18
N	3.7	8.9	4.6	.8	.1	18.1	12.2	19.5	19.5	15.9	16.9	20.1	20.1	20.1	20.1
NE	4.0	8.6	4.2	.9	.1	17.7	12.4	19.3	19.3	17.2	16.1	18.0	18.0	18.0	18.0
E	3.1	5.7	2.5	.5	.1	11.8	12.0	11.9	11.9	12.7	12.1	10.5	10.5	10.5	10.5
SE	2.5	3.6	1.3	.3	*	7.7	11.4	7.5	7.5	8.1	8.2	7.1	7.1	7.1	7.1
S	2.5	3.7	1.3	.3	*	7.8	11.5	6.9	6.9	8.8	8.4	7.0	7.0	7.0	7.0
SW	2.9	4.7	1.7	.2	*	9.5	11.3	8.5	8.5	11.3	10.1	8.3	8.3	8.3	8.3
W	2.5	4.5	1.9	.4	*	9.4	11.8	8.9	8.9	9.6	10.0	9.0	9.0	9.0	9.0
NW	3.0	7.7	4.4	.9	.1	16.1	12.1	15.9	15.9	14.5	16.0	18.0	18.0	18.0	18.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.9	.0	.0	.0	.0	1.9	.0	.0	1.6	1.8	2.3	2.0	2.0	2.0	2.0
TOT OBS	14346	25802	11909	2236	202	54545	12.1	15181	15181	12433	14567	12362	12362	12362	12362
TOT PCT	26.3	47.4	21.8	4.2	.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

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TABLE 4

HOUR	CALM	1-3	4-10	PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)			
				WIND SPEED (KNOTS)			
				11-21	22-33	34-47	48+
00003	1.6	6.7	40.5	37.7	11.7	1.5	.2
06009	1.8	6.7	42.0	36.6	11.5	1.2	.1
12015	2.3	7.5	43.5	35.3	10.2	1.1	.1
18021	2.0	6.6	42.6	37.6	10.0	1.0	.1
TOT	1063	3779	22936	20057	5962	676	72
PCT	1.9	6.9	42.1	36.8	10.9	1.2	.1
							100.0

PCT
TOTAL
OBS

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (E.GHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 &	TOTAL	
					OBS	OBS
N	4.9	2.7	5.1	4.3	4.7	4.7
NE	3.5	2.2	4.6	6.0	5.4	5.4
E	1.9	1.6	3.1	4.9	5.8	5.8
SE	1.1	1.0	2.3	3.0	6.0	6.0
S	1.7	1.2	2.7	3.6	5.8	5.8
SW	2.5	1.8	3.3	3.2	5.1	5.1
W	3.4	1.9	3.5	2.1	4.3	4.3
NW	4.8	2.7	5.0	2.6	4.1	4.1
CALM	.0	.0	.0	.0	.0	.0
TOT	33.9	21.7	41.3	41.3	137.62	137.62
PCT	24.4	15.4	30.1	30.1	100.0	100.0

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT.) NH >4/8
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & DBSCD	TOTAL DBS	MEAN CLOUD COVER	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT DBS	TOTAL DBS
N	4.9	2.7	5.1	4.3		4.7	.1	*	.2	1.0	2.4	2.3	.5	.1	.1	.1	10.2	
NE	3.5	2.2	4.6	6.0		5.4	.2	.1	.2	1.3	3.0	2.1	.6	.1	.1	.1	8.5	
E	1.9	1.6	3.1	4.9		5.8	.1	*	.3	1.0	2.3	1.5	.3	.1	.1	.1	5.7	
SE	1.1	1.0	2.3	3.0		6.0	.1	*	.1	.7	1.5	.9	.1	.1	.1	.1	3.7	
S	1.7	1.2	2.7	3.6		5.8	.1	*	.1	.8	1.7	1.0	.2	.1	.1	.1	5.1	
SW	2.5	1.8	3.3	3.2		5.1	*	*	.2	.8	1.6	.9	.2	.1	.1	*	6.8	
W	3.4	1.9	3.5	2.1		4.3	*	*	.1	.5	1.3	1.2	.3	.1	.1	.1	7.4	
NW	4.8	2.7	5.0	2.6		4.1	*	*	.1	.9	1.8	2.0	.4	.1	.1	.1	9.5	
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.7	.3	.5	.4		.0	*	.0	*	.0	.2	.1	.1	.1	.1	.1	1.4	
TOT DBS	3379	2117	4113	4153		5.0	91	31	208	955	2153	1611	376	89	69	100	8079	13762
TOT PCT	24.4	15.4	30.1	30.1		100.0	.7	.2	1.5	7.0	15.8	12.0	2.8	.7	.5	.7	58.2	100.0

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TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH > 4/8) AND VSBY (NM)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.9	1.2	1.2	1.2	1.2	1.2	1.2	1.2
= OR >5000	1.3	1.8	1.9	1.9	1.9	1.9	1.9	1.9
= OR >3000	3.3	4.5	4.6	4.7	4.7	4.7	4.7	4.7
= OR >2000	11.7	16.0	16.6	16.6	16.7	16.7	16.7	16.7
= OR >1000	21.0	30.4	31.9	32.2	32.2	32.3	32.3	32.3
= OR >600	24.2	36.2	38.6	39.0	39.2	39.2	39.2	39.2
= OR >300	24.7	37.3	39.9	40.4	40.6	40.7	40.7	40.7
= OR >150	24.8	37.4	40.1	40.6	40.8	40.9	40.9	40.9
= OR > 0	24.9	37.7	40.5	41.1	41.4	41.5	41.6	41.6
TOTAL	3370	5126	5514	5602	5638	5649	5661	5664

TOTAL NUMBER OF OBS: 13780

PCT FREQ NH <5/8: 58.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
12.4	12.1	15.2	10.3	8.1	7.5	10.0	6.7	17.2	.6	14848	.

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	* .1	* *	* *	* *	* *	* *	* *	* *	.0	* *	.3	
NO PCP	* *	* *	* *	* *	* *	* *	* *	* *	.0	* *	.1	
TOT %	.1	.1	.1	.1	.1	.1	.1	.1	.0	.0	.4	
PCP	.1	.1	.1	.1	.1	.1	.1	.1	.0	.0	.6	
NO PCP	* .1	* *	* *	* *	* *	* *	* *	* *	.0	* *	.4	
TOT %	.1	.2	.2	.1	.1	.1	.1	.1	.0	.0	1.0	
PCP	.2	.3	.2	.2	.2	.1	* *	* *	.0	* *	1.3	
NO PCP	* *	* *	* *	* *	* *	* *	* *	* *	.0	* *	.3	
TOT %	.2	.4	.3	.2	.2	.1	.1	.1	.0	* *	1.6	
PCP	.3	.6	.5	.3	.3	.2	.1	.1	.0	* *	2.3	
NO PCP	.2	.2	.2	.1	.2	.2	.1	.1	.0	* *	1.3	
TOT %	.5	.8	.7	.4	.4	.1	.2	.2	.0	* *	3.7	
PCP	.6	.8	.7	.5	.5	.4	.2	.3	.0	* *	4.1	
NO PCP	3.4	3.8	2.5	1.7	1.8	2.3	2.0	2.9	.0	.3	20.7	
TOT %	4.0	4.6	3.3	2.3	2.3	2.7	2.2	3.2	.0	.3	24.9	
PCP	.3	.4	.3	.2	.2	.1	.1	.1	.0	* *	1.6	
NO PCP	13.1	11.0	6.9	4.4	4.4	6.2	7.1	12.7	.0	1.1	66.8	
TOT %	13.4	11.3	7.2	4.6	4.6	6.3	7.1	12.8	.0	1.1	68.5	
TOT OBS												44995
TOT PCT	18.3	17.4	11.7	7.6	7.7	9.6	9.7	14.5	.0	1.5	100.0	

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TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	*	*	*	*	*	*	*	.0	*	.1	
	4-10	.1	.1	*	*	*	*	*	*	.0		.3	
	11-21	*	*	*	*	*	*	*	*	.0		.2	
	22+	*	*	*	*	*	*	*	*	.0		.1	
	TOT %	.1	.1	.1	.1	.1	.1	.1	.1	.0	*	.8	
1/2<1	0-3	*	*	*	*	*	*	*	*	.0	*	.2	
	4-10	*	.1	*	*	*	*	*	*	.0		.4	
	11-21	*	.1	.1	*	*	*	*	*	.0		.4	
	22+	*	.1	.1	*	*	*	*	*	.0		.3	
	TOT %	.1	.2	.2	.1	.1	.1	.1	.1	.0	*	1.2	
1<2	0-3	*	*	*	*	*	*	*	*	.0	*	.2	
	4-10	.1	.1	.1	.1	.1	.1	.1	.1	.0		.7	
	11-21	.1	.2	.1	.1	.1	.1	.1	.1	.0		.8	
	22+	.1	.1	.1	.1	.1	.1	.1	.1	.0		.6	
	TOT %	.3	.5	.4	.3	.3	.2	.1	.1	.0	*	2.3	
2<5	0-3	.1	.1	.1	*	.1	.1	.1	.1	.0	.1	.5	
	4-10	.4	.5	.3	.2	.3	.3	.2	.2	.0		2.3	
	11-21	.3	.5	.4	.2	.2	.2	.1	.1	.0		2.2	
	22+	.2	.3	.2	.1	.1	.1	.1	.1	.0		1.1	
	TOT %	.9	1.3	1.0	.6	.7	.6	.4	.5	.0	.1	6.1	
5<10	0-3	.2	.3	.2	.2	.2	.2	.2	.2	.0	.3	2.1	
	4-10	1.4	1.7	1.2	.9	.9	1.0	.8	1.0	.0		9.0	
	11-21	1.5	1.7	1.2	.8	.8	.9	.7	1.1	.0		8.7	
	22+	.6	.7	.5	.3	.3	.3	.3	.5	.0		3.4	
	TOT %	3.7	4.3	3.1	2.1	2.2	2.5	2.0	2.9	.0	.3	23.1	
10+	0-3	.6	.7	.5	.5	.5	.5	.5	.5	.0	1.3	5.6	
	4-10	5.2	4.9	3.5	2.5	2.5	3.2	3.1	4.6	.0		29.6	
	11-21	5.6	4.4	2.4	1.3	1.2	2.1	2.5	5.5	.0		25.1	
	22+	1.5	1.1	.4	.2	.2	.3	.8	1.8	.0		6.3	
	TOT %	13.0	11.1	6.9	4.4	4.4	6.1	6.9	12.4	.0	1.3	66.5	
	TOT OBS												49933
	TOT PCT	18.2	17.6	11.7	7.7	7.8	9.6	9.5	16.2	.0	1.8	100.0	

PERIOD: (PRIMARY) 1933-1970
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.5	.2	1.9	7.2	17.6	13.1	2.9	.6	.6	.6	.6	45.1	54.9	3862
06009	.6	.3	1.4	4.6	15.4	10.4	2.9	.5	.4	.4	1.0	39.6	60.4	3885
12015	.6	.2	1.2	6.2	13.3	10.3	2.3	.8	.4	.4	.4	35.7	64.3	3310
18021	.8	.2	1.2	6.8	13.8	12.4	2.7	.7	.5	.7	.7	39.8	60.2	3323
TOT PCT	92 .6	31 .2	208 1.4	962 6.7	2157 15.1	1621 11.5	377 2.7	90 .6	69 .5	100 .7	5707 40.2	8673 59.8	14380 100.0	

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.4	.3	.7	3.2	19.7	75.7	3714
06009	.1	.3	.8	3.9	21.6	73.3	3721
12015	.2	.3	.6	3.5	25.0	70.5	3163
18021	.3	.3	.7	4.0	25.1	69.6	3206
TOT PCT	32 .2	46 .3	98 .7	504 3.6	3137 22.6	5987 72.5	13804 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50yd	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.7	3.0	12.6	34.6	52.8	3714
06009	.8	2.7	12.2	29.8	58.0	3721
12015	.8	2.5	11.7	26.6	61.7	3163
18021	1.1	2.8	12.4	29.6	57.9	3206
TOT PCT	119 .9	385 2.8	1699 12.3	4118 30.3	7991 57.4	13804 100.0

PERIOD: (PRIMARY) 1933-1970
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TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	.0	.0	.0	.0	.0	2	.3
90/94	.0	.0	.0	.0	.1	.1	.0	.0	44	.3
85/89	.0	.0	.0	.0	.3	1.6	1.0	.1	451	3.1
80/84	.0	.0	.1	.2	.8	3.5	8.6	3.4	2386	16.5
75/79	.0	.0	.1	.4	1.4	3.2	3.1	3.7	1806	12.3
70/74	.0	.1	.4	1.4	3.3	3.9	4.3	3.8	2498	17.1
65/69	.0	.1	.4	1.7	2.7	3.2	3.2	2.8	1983	14.2
60/64	.0	.1	.6	1.9	3.4	2.6	1.9	1.5	1570	12.0
55/59	.0	.1	.8	2.1	3.2	2.3	1.3	.9	1319	10.6
50/54	.0	.1	.6	2.0	2.9	1.4	1.1	.6	1032	8.6
45/49	.0	.0	.4	.9	1.3	.8	.4	.2	464	3.9
40/44	.0	.0	.1	.3	.4	.2	.1	.1	134	1.2
35/39	.0	.0	.0	.0	.0	.0	.0	.0	7	.1
TOTAL	6	57	442	1515	2668	3160	3465	2383	13696	100.0
PCT	.1	.4	3.4	11.4	19.9	22.8	25.0	17.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CAL'
95/99	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
90/94	.0	.0	.1	.4	.5	.7	.3	.1	.0	.1
85/89	.1	.4	.5	.4	.5	.7	.3	.1	.0	.1
80/84	.7	1.7	2.5	2.3	2.6	3.6	1.9	.7	.0	.4
75/79	1.5	2.3	1.8	1.0	1.6	2.1	1.0	.8	.0	.3
70/74	2.4	3.6	2.6	1.8	1.8	1.8	1.5	1.5	.0	.3
65/69	2.5	2.8	1.9	1.3	1.4	1.1	1.3	1.6	.0	.2
60/64	2.7	1.8	.7	.8	.6	.7	1.2	2.1	.0	.2
55/59	3.1	1.8	.2	.2	.3	.3	1.2	2.7	.0	.2
50/54	2.7	1.3	.3	.1	.1	.1	.9	3.0	.0	.1
45/49	1.2	.5	.0	.0	.0	.0	.5	1.6	.0	.0
40/44	.3	.1	.0	.0	.0	.0	.1	.7	.0	.0
35/39	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	17.1	16.6	11.8	8.0	8.8	10.7	10.4	14.9	.0	1.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	95	79	76	68	59	54	27	67.7	14947
06009	97	79	76	68	59	54	28	67.7	12402
12015	91	77	74	66	58	53	25	66.0	14526
18021	88	76	73	66	57	52	27	65.2	12386
TOT	97	78	75	67	58	53	25	66.7	54261

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.1	14.4	20.4	23.3	25.2	16.7	75	3888		
06009	.1	19.0	21.7	24.3	21.9	13.1	73	3476		
12015	.0	14.4	19.2	21.8	26.5	18.0	76	3298		
18021	.0	13.0	18.1	21.2	26.4	21.3	77	3172		
TOT	6	2037	2691	3180	3508	2412	75	13834		

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	25	29	33	37	41	45	49	53	57	61	65	69	73	77	81	85	89	92	TOT	W FOG	HQ FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	*
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	*
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	.0	*
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	144	.0	*
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	208	.0	.3
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	365	.0	.8
6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	139	.0	.3
5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	719	.0	1.6
4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1389	.0	3.1
3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	455	.0	1.0
2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3205	.0	7.1
1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1036	.0	2.4
0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5694	.0	12.8
-1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1404	.0	3.2
-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5175	.0	11.7
-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1186	.0	2.7
-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4015	.0	9.1
-5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3132	.0	7.2
-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	910	.0	2.1
-7/-8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3331	.0	7.7
-9/-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2748	.0	6.4
-11/-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3617	.0	8.5
-14/-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2327	.0	5.6
-17/-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	934	.0	2.3
-20/-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	629	.0	1.5
-23/-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	185	.0	.5
-26/-30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	69	.0	.2
<-30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	*
TOTAL	8	19	72	349	729	2445	2617	3440	3268	5447	4400	5210	4687	4079	5331	807	118	18	43044	733	42311
PCT	*	*	.2	.8	1.7	5.8	6.1	8.0	7.6	12.4	9.9	11.8	10.8	9.7	12.9	2.0	.3	*	100.0	1.6	98.4

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.8	*	.0	.0	.0	1.0	.2	.8	*	.0	.0	.0	1.1
1-2	.2	2.7	1.5	.0	.0	.0	4.4	.2	2.7	1.6	.0	.0	.0	4.5
3-4	*	1.7	3.0	.5	.0	.0	5.3	.1	1.4	3.0	.4	.0	.0	4.9
5-6	.0	.3	2.2	.6	*	.0	3.1	*	.4	1.9	.5	*	.0	2.9
7	.0	.1	.9	.5	.1	.0	1.6	.0	.1	.9	.6	*	.0	1.7
8-9	.0	.0	.2	.3	.1	.0	.3	.0	.0	.3	.1	*	.0	.9
10-11	.0	.0	.1	.2	.0	*	.2	.0	*	.1	.4	.1	*	.6
12	.0	.0	*	.1	*	.0	.2	.0	.0	.0	.1	*	.0	.2
13-16	.0	.0	*	.0	*	.0	.1	.0	.0	.0	*	.1	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	*	.0	*	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	5.6	7.9	2.3	.2	*	16.5	.5	5.5	7.8	2.8	.3	*	17.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.8	.1	.0	.0	.0	1.0	.1	.6	*	.0	.0	.0	.8
1-2	.3	2.2	1.1	.0	.0	.0	3.6	.1	1.5	.9	.0	.0	.0	2.4
3-4	.0	1.3	2.2	.2	.0	.0	3.7	.1	.8	1.3	.1	.0	.0	2.3
5-6	.0	.3	1.2	.5	.0	.0	1.9	.0	.2	.7	.2	.0	.0	1.0
7	.0	*	.5	.5	*	.0	1.1	.0	.1	.3	.2	.0	.0	.6
8-9	.0	.1	.2	.2	.0	*	.5	.0	.0	.1	.1	*	.0	.3
10-11	.0	*	.1	.1	*	.0	.3	.0	.0	.0	.1	*	.0	.1
12	.0	.0	*	.1	.0	*	.1	.0	.0	.0	*	.0	.0	.1
13-16	.0	.0	*	.0	*	.0	.1	.0	.0	.0	*	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*	.0	.0	*
20-22	.0	.0	.0	.0	*	.0	*	.0	.0	.0	*	.0	.0	*
23-25	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	4.6	5.6	1.7	.1	*	12.4	.2	3.2	3.4	.7	.1	.0	7.6

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.9	*	.0	.0	.0	1.2	.2	.6	.1	.0	.0	.0	.8
1-2	.1	1.5	.9	.0	.0	.0	2.5	*	1.9	1.1	.0	.0	.0	2.9
3-4	*	1.0	1.1	.1	.0	.0	2.3	*	1.7	2.2	.3	.0	.0	2.2
5-6	.0	.1	.6	.3	.1	.0	1.1	.0	.1	1.3	.6	*	.0	2.0
7	.0	.1	.3	.1	*	.0	.5	*	.1	.6	.4	*	.0	1.0
8-9	.0	.0	.1	.1	*	.0	.3	.0	*	.2	.2	*	.0	.4
10-11	.0	.0	*	.2	.0	.0	.2	.0	.0	*	.1	.0	.0	.2
12	.0	.0	*	.0	*	.0	*	.0	.0	*	*	*	.0	*
13-16	.0	.0	.0	*	*	.0	.1	.0	.0	.0	*	*	.0	*
17-19	.0	.0	.0	*	.0	.0	*	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	3.5	3.1	.9	.2	*	8.2	.2	3.4	5.4	1.6	*	.0	10.6

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.5	*	.0	.0	.0	.6	.2	.9	*	.0	.0	.0	1.0
1-2	.1	1.6	1.2	.0	.0	.0	2.9	.2	2.2	1.4	.0	.0	.0	3.7
3-4	*	1.1	2.0	.3	.0	.0	3.3	.1	1.6	2.8	.4	.0	.0	4.9
5-6	.0	.3	1.2	.3	*	.0	1.7	*	1.9	1.9	.7	*	.0	3.0
7	.0	*	.5	.4	*	.0	.9	.0	*	.9	.6	*	.0	1.5
8-9	.0	*	.2	.3	.1	.0	.6	.0	.0	.2	.3	.1	.0	.8
10-11	.0	*	*	.1	*	.0	.2	.0	.0	*	.3	.1	.0	.4
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	*	*	.0	*	.0	.0	*	.1	.0	.0	.2
17-19	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	*	*	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.1
23-25	.0	.0	.0	*	.0	.0	*	.0	.0	.0	.0	.0	.0	*
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	3.5	5.1	1.5	.3	.0	10.6	.4	5.0	7.2	2.7	.4	*	15.8

PERIOD: (OVER-ALL) 1963-1970

ANNUAL

AREA 0007 N08E0KA
32.1N 133.0E

TABLE 18 (CONT)

WIND SPEED (KTS) VS SEA HEIGHT (FT)										TOT OBS
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT			
<1	3.5	5.8	.4	.0	.0	.0	9.6			
1-2	1.3	16.0	9.4	.0	.0	.0	26.7			
3-4	.4	9.5	17.4	2.3	.0	.0	29.6			
5-6	.1	1.9	10.9	3.5	.2	.0	16.5			
7	*	.5	4.8	3.4	.2	.0	8.8			
8-9	.0	.2	1.6	2.1	.4	*	4.2			
10-11	.0	.1	.5	1.6	.2	.1	2.4			
12	.0	.0	.1	.6	.1	*	.8			
13-16	.0	.0	.1	.4	.3	*	.9			
17-19	.0	.0	.0	.1	.1	.0	.2			
20-22	.0	.0	.0	*	.1	.0	.1			
23-25	.0	.0	.0	*	*	*	.1			
26-32	.0	.0	.0	.0	.0	.0	*			
33-40	.0	.0	.0	.0	.0	.0	.0			
41-48	.0	.0	.0	.0	.0	.0	.0			
49-60	.0	.0	.0	.0	.0	.0	.0			
61-70	.0	.0	.0	.0	.0	.0	.0			
71-86	.0	.0	.0	.0	.0	.0	.0			
87+	.0	.0	.0	.0	.0	.0	.0			
TOT PCT	5.2	33.9	45.1	14.0	1.6	.2	100.0			5232

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-85	87+	TOTAL	MEAN HGT
<6	2.8	14.9	19.1	7.4	2.7	1.2	.6	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	5524	3
6-7	.1	1.5	6.5	7.6	4.7	2.0	1.0	.4	.5	.1	*	*	.0	.0	.0	.0	.0	.0	.0	2757	5
8-9	*	.4	1.3	2.4	2.5	1.7	1.1	.5	.4	*	.1	*	*	.0	.0	.0	.0	.0	.0	1188	7
10-11	.0	.2	.3	.5	.7	.7	.5	.3	.3	*	*	*	*	.0	.0	.0	.0	.0	.0	406	8
12-13	.0	.0	.2	.2	.1	.2	.2	.2	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	141	9
>13	.0	.0	.0	*	.1	*	.2	.1	.1	.1	*	*	*	.0	.0	.0	.0	.0	.0	74	13
INDET	4.0	2.2	2.0	1.1	.6	.4	.1	.1	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	1224	3
TOTAL	789	2182	3317	2155	1292	699	425	187	197	22	26	14	9	0	0	0	0	0	0	11314	4
PCT	6.9	19.2	29.4	19.2	11.4	6.2	3.7	1.7	1.7	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1856-1970

TABLE 20

AREA 0007 NOBEDKA
32.1N 133.0E

SEA TMP DEG F	PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH												ANN	PCT
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
89/90	.0	.0	.0	.0	.0	.0	.1	.2	.2	.0	.0	.0	.0	.0
87/88	.0	.0	.0	.0	.0	.0	.6	1.7	.8	.0	.0	.0	.0	.0
85/86	.0	.0	.0	.0	.0	.0	3.3	7.7	3.4	.0	.0	.0	.0	.0
83/84	.0	.0	.0	.0	.0	.0	12.0	22.2	11.8	.0	.0	.0	.0	.0
81/82	.0	.0	.0	.0	.0	.0	34.7	45.7	34.7	.0	.0	.0	.0	.0
79/80	.0	.0	.0	.0	.0	.0	21.4	14.2	23.0	.0	.0	.0	.0	.0
77/78	.0	.0	.0	.0	.0	.0	8.0	4.7	12.1	.0	.0	.0	.0	.0
75/76	.0	.0	.0	.0	.0	.0	13.8	4.7	8.1	.0	.0	.0	.0	.0
73/74	.0	.0	.0	.0	.0	.0	21.7	2.0	8.1	.0	.0	.0	.0	.0
71/72	.0	.0	.0	.0	.0	.0	22.4	4.3	3.5	.0	.0	.0	.0	.0
69/70	.0	.0	.0	.0	.0	.0	1.4	1.9	1.5	.0	.0	.0	.0	.0
67/68	.0	.0	.0	.0	.0	.0	3.7	.4	.4	.0	.0	.0	.0	.0
65/66	.0	.0	.0	.0	.0	.0	1.6	.2	.1	.0	.0	.0	.0	.0
63/64	.0	.0	.0	.0	.0	.0	3.5	.4	.4	.0	.0	.0	.0	.0
61/62	.0	.0	.0	.0	.0	.0	8.1	.1	.1	.0	.0	.0	.0	.0
59/60	.0	.0	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0
57/58	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
55/56	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
53/54	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
51/52	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49/50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
47/48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
45/46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
43/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	4079	4272	4967	5001	5013	4403	4306	4153	4059	4459	3918	3944	52584	100.0
MEAN	62.8	61.9	62.6	65.8	70.0	74.0	79.7	81.6	79.8	73.8	71.3	66.9	71.0	

PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1856-1970

AREA 0007 NOBODKA
32.1N 133.0E

TABLE 21

PRESSURE (MB)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1019	1018	1017	1017	1019	1018	1019	1018	1018	3590
FEB	1019	1017	1018	1016	1018	1017	1018	1017	1017	3804
MAR	1018	1016	1015	1014	1017	1016	1017	1016	1016	4322
APR	1016	1015	1013	1013	1016	1014	1015	1014	1014	4193
MAY	1012	1012	1012	1011	1012	1012	1011	1012	1012	4231
JUN	1009	1009	1009	1008	1009	1009	1008	1009	1009	3764
JUL	1010	1010	1009	1009	1010	1009	1009	1009	1009	3824
AUG	1009	1009	1008	1009	1009	1010	1008	1009	1009	3597
SEP	1011	1011	1010	1010	1011	1011	1010	1010	1010	3620
OCT	1016	1015	1014	1015	1015	1015	1015	1015	1015	3942
NOV	1019	1019	1018	1018	1019	1018	1019	1018	1018	3382
DEC	1021	1019	1019	1018	1020	1019	1020	1018	1019	3349
ANN	1015	1014	1014	1013	1015	1014	1014	1014	1014	45618
OBS	4276	7586	4237	6925	3803	7738	3690	7363		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	990	1001	1008	1014	1018	1022	1027	1030	1036
FEB	992	1001	1007	1014	1018	1021	1026	1029	1035
MAR	993	999	1005	1012	1016	1020	1026	1030	1036
APR	991	998	1004	1011	1015	1018	1023	1027	1033
MAY	990	998	1002	1008	1012	1015	1020	1023	1029
JUN	989	996	1001	1006	1009	1012	1016	1018	1024
JUL	986	994	1000	1006	1010	1013	1016	1018	1022
AUG	987	994	1001	1006	1009	1012	1016	1018	1024
SEP	977	994	1001	1008	1011	1014	1018	1020	1026
OCT	979	997	1005	1012	1016	1019	1023	1026	1029
NOV	995	1004	1010	1015	1019	1022	1026	1029	1034
DEC	992	1004	1009	1016	1020	1023	1027	1030	1034

JANUARY

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1869-1970

AREA 0008 YAKU SHIMA
29.9N 129.9E

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE				HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN DBS	OTHER WEATHER PHENOMENA						TOTAL OBS
				FRZN	SNOW	OTHER	PCPN				THDR	PCPN	FOG	SMOKE	DUST	NO	
N	1.7	.7	.3	.0	*	.0	.0	.1	2.9	.0	.0	.1	.1	.0	.0	31.4	
NE	1.2	.2	.2	.0	.0	.0	.0	*	1.6	.1	.1	*	.0	.0	.0	9.4	
E	.6	.2	.3	.0	.0	.0	.0	.0	1.1	.0	*	*	.0	.0	.0	4.5	
SE	.5	.1	.3	.0	.0	.0	.0	.0	.8	.0	.0	*	*	*	.0	2.2	
S	.3	*	.1	.0	.0	.0	.0	.0	.5	.0	.0	*	*	*	.0	2.0	
SW	.3	*	*	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	1.6	
W	.4	.1	.1	.0	.0	.0	.0	*	.6	.0	.0	*	.0	.0	.0	5.8	
NW	1.3	1.4	.3	.1	.0	.0	.0	.3	3.3	.1	.1	*	.1	.0	.0	31.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	
TOT OBS	165	73	41	3	1	0	0	12	.0	292	.5	7	5	.0	.0	2291	2597
TOT PCT	6.4	2.8	1.6	.1	*	.0	.0	.5	11.2		.2	.3	.2	.0	.0	88.2	

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE				HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN DBS	THDR LTNG	OTHER WEATHER PHENOMENA						TOTAL OBS
				FRZG PCPN	SNOW	OTHER FRZN PCPN	FOG PCPN					SMOKE HAZE	DUST BLWG SNOW	NO WEA				
0003	5.4	2.7	.9	.2	.0	.0	.3	9.5	.0	.3	.2	.0	.0	.0	.0	90.0		
0609	6.1	3.4	1.2	.0	.0	.0	.8	11.4	.2	.2	.2	.0	.3	.3	.0	88.1		
1215	7.2	2.6	2.4	.0	.1	.0	.3	12.3	.4	.4	.4	.0	.1	.1	.0	87.0		
1821	6.5	2.6	1.7	.3	.0	.0	.5	11.4	.2	.2	.2	.0	.2	.2	.0	88.1		
TOT	165	73	41	3	1	0	12		.2	292	.2	.5	.7	.5	.0	2301	2607	
PCT	6.5	2.8	1.6	.1	*	.0	.5	11.2	.2	.3	.2	.0	.3	.2	.0	88.3		

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TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)					
	0-3	4-10	11-21	22-33	34-47	00	03	06	09	12					15	18	21			
N	.5	9.5	17.2	7.0	.5	.0	34.6	15.7	31.6	37.5	31.3	39.2	28.3	36.6	30.3	36.8				
NE	.3	5.2	4.9	.9	*	.0	11.3	12.2	11.9	10.2	7.2	11.7	10.6	14.1	10.2	12.5				
E	.4	2.2	2.2	.5	*	.0	5.2	12.0	5.5	4.4	6.1	6.2	6.5	5.4	6.1	2.9				
SE	.3	1.2	1.3	.3	*	.0	3.0	11.6	2.7	2.9	2.3	2.7	3.8	3.2	2.4	2.6				
S	.2	1.2	.9	.2	*	.0	2.6	11.7	1.2	3.4	3.4	2.5	2.4	1.7	2.3	2.7				
SW	.1	1.7	1.1	.2	*	.0	2.1	13.1	3.5	2.2	3.3	1.4	2.4	.9	3.4	1.3				
W	.1	1.8	2.3	1.4	.7	*	6.4	18.4	9.5	3.7	8.0	4.9	7.7	3.9	11.3	4.2				
NW	.3	6.6	14.7	11.0	1.5	.3	34.3	19.0	34.0	33.3	38.3	30.8	37.6	33.6	33.5	35.1				
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
CALM	.4	858	1349	649	85	10	3030	.4	.3	.4	.0	.5	.9	.6	.4	.0				
TOT OBS	79	28.3	44.5	21.4	2.8	.3		16.1	32.4	462	280	381	329	522	277	455				
TOT PCT	2.6	8.6	13.8	6.8	.9	.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)										41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)									
	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21								
N	2.8	16.1	13.0	2.6	.1	34.6	15.7	35.1	35.9	33.4	34.3													
NE	2.0	6.4	2.6	.2	*	11.3	12.2	10.9	9.8	12.7	11.6													
E	1.2	3.0	.8	.2	.0	5.2	12.0	4.9	6.2	5.8	4.1													
SE	.9	1.6	.4	.1	.0	3.0	11.6	2.8	2.5	3.4	3.1													
S	.8	1.2	.5	.1	.0	2.6	11.7	2.4	2.9	2.0	3.2													
SW	.7	1.1	.5	.1	.0	2.1	13.1	2.7	2.2	1.4	2.1													
W	.6	2.7	1.9	1.1	.2	6.4	18.4	7.3	6.2	5.4	6.9													
NW	2.5	10.5	15.0	5.6	.7	34.3	19.0	33.6	34.0	35.1	34.5													
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0													
CALM	.4	858	1349	649	85	10	3030	.4	.3	.4	.0	.5	.9	.6	.4	.0								
TOT OBS	350	1292	1052	304	32	3030	100.0	16.1	786	661	851	732												
TOT PCT	11.6	42.6	34.7	10.0	1.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0												

TABLE 4

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+			
00003	.4	2.4	26.3	46.3	20.7	3.4	.4	16.3	100.0	786
06009	.5	2.0	25.7	44.2	23.9	3.5	.5	16.8	100.0	661
12015	.7	2.2	32.1	42.5	20.0	2.2	.2	15.3	100.0	851
18021	.1	2.2	28.4	45.2	21.6	2.2	.3	16.0	100.0	732
TOT	12	67	858	1349	649	85	10	16.1		3030
PCT	.4	2.2	28.3	44.5	21.4	2.8	.3		100.0	

TABLE 5

WIND DIR	PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)							TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8-10	11-14	15-18	19-24		
N	4.0	3.9	11.3	8.1					5.5
NE	1.6	1.1	4.2	2.4					5.4
E	1.3	.8	2.2	3.2					5.8
SE	.1	.1	.9	1.6					6.9
S	.6	.3	1.0	.8					5.3
SW	.2	.8	1.3	1.0					5.8
W	1.6	2.1	5.6	1.8					5.3
NW	.0	5.5	17.9	6.3					5.5
VAR	.0	.0	.0	.0					.0
CALC	.2	.1	.2	.0					4.0
TOT OBS	128	137	435	235				935	5.5
TOT PCT	13.7	14.7	46.5	25.1				100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION															NH ANY	8000+ ANY	6500 7999	5000 6499	3500 4999	2000 3499	1000 1999	600 599	300 299	TOTAL OBS
N	.3	.1	.2	3.5	6.7	4.7	1.0	.3	.0	.2	10.2													
NE	.2	1.0	1.7	1.3	2.2	1.8	.2	.1	.0	.0	3.5													
E	.1	.5	.7	.5	.7	.5	.1	.0	.0	.1	2.8													
SE	.2	.1	.8	.3	.1	.3	.1	.0	.1	.0	1.1													
S	.0	.6	.6	.6	.6	.5	.1	.0	.0	.0	1.3													
SW	.7	1.1	1.9	5.1	8.4	2.0	.4	.1	.0	.0	4.7													
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.8													
NW	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0													
VAR	.23	124	217	166	30	8	1	3	349	.3	935													
TOTAL	2.5	13.3	23.2	17.8	3.9	.9	.1	.3	37.3	100.0														

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TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NM)									
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0		
= OR >6500	.4	.4	.4	.4	.4	.4	.4	.4		
= OR >5000	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3		
= OR >3500	4.4	5.2	5.2	5.2	5.2	5.2	5.2	5.2		
= OR >2000	12.6	22.3	22.8	22.9	22.9	22.9	22.9	22.9		
= OR >1000	35.1	43.7	45.9	46.0	46.2	46.2	46.2	46.2		
= OR >800	42.5	55.2	58.8	59.1	59.4	59.5	59.5	59.5		
= OR >300	43.9	57.5	61.1	61.5	61.9	62.0	62.0	62.0		
= OR >150	43.9	57.8	61.4	61.9	62.2	62.3	62.3	62.3		
= OR > 0	44.0	58.1	61.8	62.4	62.7	62.8	62.8	62.8		
TOTAL	410	541	575	581	584	585	585	585		

TOTAL NUMBER OF OBS: 931

PCT FREQ NH <5/8: 37.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
4.4	5.4	8.8	8.7	10.3	12.1	17.5	14.7	17.5	.5	977	

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TABLE B

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	.1	*	.0	*	.0	*	.1	.0	.0	.0	.2	
ND PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT %	.1	*	.0	*	.0	*	.1	.0	.0	.0	.2	
PCP	.1	.0	.1	.1	.0	.0	.0	.1	.0	.0	.3	
ND PCP	.1	*	.0	.0	.0	.0	.0	.2	.0	.0	.3	
TOT %	.2	*	.1	.1	.0	.0	.0	.3	.0	.0	.6	
PCP	.4	.3	*	.1	.1	*	.1	.2	.0	.0	1.2	
ND PCP	.1	.0	.0	.0	.1	*	.0	.1	.0	*	.2	
TOT %	.4	.3	*	.1	.2	.1	.1	.3	.0	*	1.4	
PCP	.6	.4	.3	.1	.1	.2	.2	.3	.0	.0	2.1	
ND PCP	.8	.2	.1	.0	.1	.1	.1	.9	.0	*	2.2	
TOT %	1.4	.6	.4	.1	.2	.2	.3	1.2	.0	*	4.3	
PCP	.9	.7	.6	.4	.2	.1	.2	1.8	.0	.0	4.9	
ND PCP	7.9	2.5	1.3	.8	.4	.2	1.4	7.5	.0	.0	21.9	
TOT %	8.8	3.2	1.9	1.2	.6	.4	1.6	9.2	.0	.0	26.8	
PCP	.8	.3	.1	.1	*	*	.2	1.0	.0	.0	2.5	
ND PCP	22.7	6.7	3.1	1.4	1.5	1.3	4.3	22.8	.0	.2	64.1	
TOT %	23.6	6.9	3.3	1.5	1.6	1.4	4.5	23.8	.0	.2	66.6	
TOT OBS												2595
TOT PCT	34.5	11.0	5.6	3.0	2.5	2.1	6.4	34.7	.0	.3	100.0	

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TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.5	.3	.2	.0	.1	.1	.2	.2	.0	.0	.0	.0
	11-21	1.2	.4	.1	.1	.1	.1	.1	.6	.0	.0	.0	.0
	22+	.7	.2	.1	.0	.0	.0	.1	1.2	.0	.0	.0	.0
	TOT %	2.5	.9	.5	.1	.2	.3	.3	2.1	.0	.1	.1	.1
5<10	0-3	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0
	4-10	2.1	1.3	.4	.4	.2	.0	.2	1.5	.0	.0	.0	.0
	11-21	4.1	1.5	1.0	.5	.2	.2	.7	3.2	.0	.0	.0	.0
	22+	2.1	.2	.3	.1	.1	.1	.5	3.8	.0	.0	.0	.0
	TOT %	8.3	3.0	1.8	1.2	.6	.3	1.4	8.6	.0	.0	.0	.0
10+	0-3	.3	.3	.1	.2	.1	.1	.1	.2	.0	.0	.0	.0
	4-10	6.9	3.4	1.7	.7	.9	.6	1.3	4.9	.0	.0	.0	.0
	11-21	11.5	2.9	1.1	.5	.5	.6	1.5	10.4	.0	.0	.0	.0
	22+	4.3	.3	.2	.0	.0	.0	.0	7.2	.0	.0	.0	.0
	TOT %	23.0	6.9	3.1	1.5	1.5	1.3	4.3	22.8	.0	.0	.0	.0
	TOT OBS	34.8	11.2	5.4	3.0	2.5	2.1	6.3	34.3	.0	.4	100.0	2793

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.4	.0	3.7	13.1	25.5	18.7	3.7	1.1	.0	.4	66.7	33.3	267
06009	.4	.4	1.7	15.7	29.7	16.1	5.5	1.3	.0	.0	70.8	29.2	236
12015	.4	.4	1.8	11.7	16.6	17.0	2.2	.0	.0	.0	50.2	49.8	223
18021	.9	.4	2.2	11.4	18.4	17.5	3.5	.9	.4	.9	56.6	43.4	228
TOT PCT	5 .5	3 .3	23 2.4	124 13.0	217 22.7	166 17.4	36 3.8	8 .8	1 .1	3 .3	386 61.4	368 38.6	954 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.0	.4	1.9	16.9	80.6	260
06009	.4	.4	1.3	5.2	20.3	72.4	232
12015	.0	.5	.5	6.3	22.6	70.1	221
18021	.0	.5	.5	4.6	20.5	74.0	219
TOT PCT	1 .1	3 .3	6 .6	41 4.4	186 20.0	695 74.6	932 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.4	4.2	19.2	48.8	31.9	260
06009	.4	3.4	22.0	50.4	27.6	232
12015	.9	3.6	19.0	33.9	47.1	221
18021	.9	4.1	19.6	40.2	40.2	219
TOT PCT	6 .6	36 3.9	186 20.0	407 43.7	339 36.4	932 100.0

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TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP											TOTAL PCT
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100				
70/74	.0	.0	.0	.1	.7	.4	.9	1.0				
65/69	.0	.0	.5	.5	2.0	1.7	2.0	1.4				
60/64	.0	.0	.5	2.0	7.7	8.0	5.4	1.7				
55/59	.0	.3	1.2	4.3	8.4	10.5	3.4	2.4				
50/54	.0	.0	.7	5.6	8.8	5.0	3.3	1.3				
45/49	.0	.0	.3	.3	1.8	2.1	1.6	.4				
40/44	.0	.0	.0	.0	.4	.4	.4	.3				
35/39	.0	.0	.0	.0	.0	.0	.3	.1				
TOTAL	0	2	24	98	227	214	131	66				
PCT	.0	.3	3.1	12.9	29.8	28.1	17.2	8.7				

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP												
N	NE	E	SE	S	SW	W	NW	VAR	CALM			
.1	.1	.0	.2	.8	1.1	.3	.5	.0	.0			
1.3	.5	1.2	.8	.6	1.1	1.2	1.3	.0	.0			
5.1	3.7	4.0	1.3	.9	.5	2.9	6.7	.0	.3			
10.2	3.7	1.3	.3	.1	.5	3.0	11.3	.0	.1			
9.0	1.9	.3	.0	.0	.2	1.8	11.5	.0	.0			
2.8	.1	.0	.0	.1	.0	.6	2.8	.0	.0			
.4	.1	.0	.0	.0	.0	.1	.9	.0	.0			
.0	*	.0	.0	.0	.0	.0	.4	.0	.0			
28.9	10.2	6.8	2.6	2.5	3.5	9.9	35.2	.0	.4			

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR										
HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS	
0003	75	72	68	57	46	39	34	56.7	766	
0609	74	72	67	56	46	41	34	56.5	650	
1215	77	73	66	55	46	43	39	55.6	843	
1821	75	68	64	54	45	40	36	54.5	728	
TOT	77	72	66	55	45	41	34	55.8	2987	

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR											TOTAL
HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN				OBS
0003	.0	15.7	30.6	28.2	15.3	10.2	72				216
0609	.0	14.8	34.1	26.1	16.5	8.5	71				176
1215	.0	18.9	23.3	26.7	22.2	8.9	72				180
1821	.0	15.7	30.9	31.4	15.2	6.8	71				191
TOT	0	124	227	215	131	66	71				763

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	33	37	41	45	49	53	57	61	65	69	73	77	TOT	W FOG	MO FOG
14/16	.0	.0	.0	.0	.0	.0	.1	.2	.3	.0	.0	.0	8	.0	.3
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	.0	.2
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	.1
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	.0	.2
6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	.0	.2
4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	.0	.5
3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	.0	.1
2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	.0	1.0
1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	.0	.2
0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	35	.0	1.4
-1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	.0	.5
-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	93	.0	3.8
-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	.0	.9
-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	131	.0	3.4
-5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	147	.0	6.0
-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	43	.0	1.8
-7/-8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	247	.0	10.1
-9/-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	308	.0	12.6
-11/-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	587	.0	24.0
-14/-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	423	.0	17.3
-17/-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	193	.0	7.9
-20/-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	102	.0	4.1
-23/-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26	.0	1.1
-26/-30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	.0	.2
TOTAL	4	14	46	312	439	549	448	444	125	45	17	1	2444	5	2439
PCT	.2	.6	1.9	12.8	18.0	22.5	18.3	18.2	5.1	1.8	.7	.1	100.0	.2	99.8

PERIOD: (OVER-ALL) 1963-1970 JANUARY AREA 0008 YAKU SHIMA
TABLE 18 29.9N 129.9E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.2	1.4	.0	.0	.0	1.3	.1	.7	.2	.0	.0	.0	1.0
1-2	.0	2.1	1.4	.0	.0	.0	3.6	.0	2.5	.8	.0	.0	.0	3.3
3-4	.0	2.2	5.8	.7	.0	.0	8.8	.0	1.2	2.4	.1	.0	.0	3.6
5-6	.2	.7	3.2	1.5	.0	.0	3.9	.0	.5	1.7	.5	.0	.0	2.7
7	.0	.2	2.2	1.5	.0	.0	1.1	.0	.0	1.1	.2	.0	.0	1.3
8-9	.0	.0	.5	.6	.0	.0	1.1	.0	.0	.2	.1	.0	.0	.3
10-11	.0	.0	.3	1.3	.2	.0	1.8	.0	.0	.5	.0	.0	.0	.5
12	.0	.0	.2	.2	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	6.3	13.7	6.3	.5	.0	27.3	.1	4.8	7.0	.8	.0	.0	12.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.1	1.3	.0	.0	.0	3.5	.0	.5	.0	.0	.0	.0	.5
3-4	.0	.6	2.4	.0	.0	.0	2.9	.0	.3	.6	.0	.0	.0	.9
5-6	.0	.2	.7	.0	.0	.0	.9	.0	.0	.7	.0	.0	.0	.7
7	.0	.0	.5	.6	.0	.0	1.2	.0	.0	.3	.2	.0	.0	.5
8-9	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.9	4.9	1.0	.0	.0	8.8	.0	.8	1.6	.2	.0	.0	2.7

6 JANUARY

AREA 0000 YAKU SHIMA
29.0N 129.0E

PERIOD: (OVER-ALL) 1963-1970

TABLE 10

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

WIND DIRECTION 1-3 4-10 11-21 22-33 34-47 48+	SEA HEIGHTS (FT)						PCT
	1-3	4-10	11-21	22-33	34-47	48+	
TOT	100	100	100	100	100	100	100
1-3	100	100	100	100	100	100	100
4-10	100	100	100	100	100	100	100
11-21	100	100	100	100	100	100	100
22-33	100	100	100	100	100	100	100
34-47	100	100	100	100	100	100	100
48+	100	100	100	100	100	100	100
TOT PCT	100	100	100	100	100	100	100

WIND DIRECTION 1-3 4-10 11-21 22-33 34-47 48+	SEA HEIGHTS (FT)						PCT
	1-3	4-10	11-21	22-33	34-47	48+	
TOT	100	100	100	100	100	100	100
1-3	100	100	100	100	100	100	100
4-10	100	100	100	100	100	100	100
11-21	100	100	100	100	100	100	100
22-33	100	100	100	100	100	100	100
34-47	100	100	100	100	100	100	100
48+	100	100	100	100	100	100	100
TOT PCT	100	100	100	100	100	100	100

PERIOD: (OVER-ALL) 1963-1970

AREA 0008 YAKU SHINA
29.0N 129.5E

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)										TOT OBS
	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	
<1	.7	3.0	.7	.0	.0	.0	.0	.0	.0	.0	4.4
1-2	.0	12.4	6.2	.0	.0	.0	.0	.0	.0	.0	18.7
3-4	.0	8.1	17.7	.0	.0	.0	.0	.0	.0	.0	25.8
5-6	.2	2.8	12.2	3.7	.0	.0	.0	.0	.0	.0	19.7
7	.0	.2	7.6	4.4	.0	.0	.0	.0	.0	.0	12.7
8-9	.0	.0	1.4	4.6	.0	.0	.0	.0	.0	.0	6.1
10-11	.0	.0	.9	2.8	.0	.0	.0	.0	.0	.0	4.1
12-13	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	1.8
14-15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4
16-17	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7
18-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7
20-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2
22-23	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
24-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
28-29	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
30-31	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
32-33	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
34-35	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
36-37	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
38-39	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
40-41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
42-43	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
44-45	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
46-47	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
48-49	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
50-51	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
52-53	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
54-55	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
56-57	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
58-59	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
60-61	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
62-63	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
64-65	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
66-67	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
68-69	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
70-71	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
72-73	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
74-75	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
76-77	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
78-79	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
80-81	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
82-83	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
84-85	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
86-87	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
88-89	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
90-91	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
92-93	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
94-95	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
96-97	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
98-99	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT	9	26.3	47.2	19.6	4.8	.9	100.0				434

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)																			TOTAL	MEAN HGT
	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+		
1-2	1.0	6.9	18.1	6.8	2.5	2.7	.9	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	277	4
3-4	.0	1.8	6.6	9.9	7.3	2.2	1.9	1.7	1.2	.4	.1	.4	.0	.0	.0	.0	.0	.0	.0	235	6
5-6	.0	.0	.0	1.7	3.2	1.4	1.4	.9	.4	.4	.3	.1	.0	.0	.0	.0	.0	.0	.0	94	9
7-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	41	12
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	10
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	17
14-15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	51	4
16-17	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	722	6
TOTAL	2.7	11.3	25.6	18.7	14.7	10.2	5.3	3.2	2.9	1.2	.8	1.1	.8	.0	.0	.0	.0	.0	.0	100.0	

FEBRUARY

AREA 0008 YAKU SHIMA
29.0N 130.0EPERIOD: (PRIMARY) 1924-1970
(OVER-ALL) 1859-1970

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN SHR	RAIN SHR	ORZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT OB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA						TOTAL OBS
				PRZO PCPN	SNOW PCPN	OTHER PRZN PCPN					FOG NO PCPN	SMOKE HAZE	DUST BLWG SNOW	DUST BLWG SNOW	SIG WEA		
N	1.7	.5	.6	.0	.0	.0	.0	2.8		*	*	.1	.0	.0	28.2		
NE	1.6	.1	.6	.0	.0	.0	.0	2.3		.0	*	.0	.0	.0	10.1		
E	1.2	.2	.2	.0	.0	.0	.0	1.5		.0	*	.0	.0	.0	5.0		
SE	.9	.1	.2	.0	.0	.0	.0	1.3		*	*	.0	.0	.0	3.5		
S	.8	.2	.2	.0	.0	.0	.0	1.2		.0	*	.0	.0	.0	2.8		
SW	.6	.1	.2	.0	.0	.0	.0	.7		.0	*	.0	.0	.0	3.4		
W	.7	.1	.2	.0	.0	.0	.0	1.0		.0	.0	.0	.0	.0	3.3		
NW	1.5	.5	.3	.0	.0	.0	.0	2.3		*	.1	.1	.0	.0	27.5		
VAR	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	*	.0	.0	.0	.0	.0	.0	*		.0	.0	.0	.0	.0	.0		
TOT OBS	223	46	58	.0	.0	.0	.0		327	.2	.7	.6	.0	.0	2156	2497	
TOT PCT	8.9	1.8	2.3	.0	.0	.0	.0	13.1		.1	.3	.2	.0	.0	86.3		

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN SHWR	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT OB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA						TOTAL OBS
				FRZO PCPN	SNOW PCPN	OTHER PRZN PCPN					FOG NO PCPN	SMOKE HAZE	DUST BLWG SNOW	DUST BLWG SNOW	SIG WEA		
0000	6.7	1.8	1.7	.2	.0	.0	.2	10.5		.0	.5	.7	.0	.0	88.3		
0600	8.1	1.6	2.9	.0	.0	.0	.0	12.4		.0	.0	.3	.0	.0	87.3		
1200	10.6	1.9	1.9	.0	.0	.0	.0	14.0		.3	.3	.0	.0	.0	85.5		
1800	10.3	2.2	2.7	.0	.0	.0	.0	15.1	330	.0	.3	.0	.0	.0	84.5		
TOT	226	46	58	1	.0	.0	1			2	.7	.6	.0	.0	2182	2526	
PCT	8.9	1.8	2.3	.0	.0	.0	.0	13.1		.1	.3	.2	.0	.0	86.4		

FEBRUARY

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1859-1970

AREA 0008 YAKU SHIMA
29.9N 130.0E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)					
										00	03	06	09	12	15
N	.7	9.1	13.1	5.8	.5	#	31.2	15.3	29.6	30.9	28.5	32.2	34.9	31.7	31.7
NE	.6	5.2	1.3	1.3	.1	.0	12.7	12.5	14.1	12.7	15.4	12.7	13.1	12.1	10.5
E	.3	2.7	2.9	.6	.0	.0	6.6	12.5	8.4	5.9	9.1	4.5	6.8	5.9	5.9
SE	.3	1.2	2.2	1.1	.0	.0	4.9	15.1	4.9	5.3	2.5	4.8	4.8	5.3	5.7
S	.1	1.2	1.4	1.1	.2	.0	3.9	16.1	3.9	4.5	5.3	4.7	4.8	4.4	3.7
SW	.2	1.5	.6	.6	.0	.0	3.8	13.3	6.1	3.6	3.8	2.4	5.5	2.5	3.5
W	.2	2.2	2.7	.9	.2	.0	6.1	14.2	5.4	5.9	9.2	4.8	3.8	5.1	3.6
NW	.3	6.6	13.2	7.9	1.4	.0	29.4	17.6	26.5	31.0	25.6	33.3	24.2	31.2	26.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.0	.0	.0	.0	.0	.0	1.0	.0	1.1	.2	.8	.5	2.3	1.0	2.6
TOT OBS	103	864	1294	563	72	2	2900	15.2	268	459	265	408	310	488	270
TOT PCT	3.6	29.8	44.6	19.4	2.3	.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)					
									00	03	06	09	12	15
N	3.4	15.1	10.5	2.1	.1	31.2	15.3	30.4	30.4	30.8	32.9	30.6	30.6	30.6
NE	2.3	6.9	1.9	.5	.1	12.7	12.9	13.2	13.2	13.8	12.5	11.3	11.3	11.3
E	1.3	3.5	1.6	.2	#	6.6	12.5	6.6	6.6	6.3	6.8	6.4	6.4	6.4
SE	.9	1.6	1.8	.3	.1	4.9	15.1	5.2	5.2	3.9	5.1	5.5	5.5	5.5
S	.8	1.3	1.6	.4	.1	4.3	16.1	4.3	4.3	4.9	4.5	3.6	3.6	3.6
SW	.7	2.0	1.9	.3	.0	3.8	13.3	4.5	4.5	2.9	3.6	4.2	4.2	4.2
W	1.0	2.9	1.7	.5	.0	6.1	14.2	5.7	5.7	6.5	4.6	7.8	7.8	7.8
NW	2.1	11.6	12.0	3.6	.1	29.4	17.6	29.2	29.2	30.3	28.5	29.5	29.5	29.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.0	.0	.0	.0	.0	1.0	.0	.6	.6	.6	1.5	1.1	1.1	1.1
TOT OBS	390	1315	955	226	14	2900	15.2	727	673	798	798	702	702	702
TOT PCT	13.4	45.3	32.9	7.8	.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1859-1970

AREA 0008 YAKU SHIMA
29.9N 130.0E

TABLE 4

HOUR	CALM	PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)					TOTAL OBS			
		1-3	4-10	WIND SPEED (KNOTS) 11-21 22-33 34-47	48+	MEAN		PCT FREQ		
0603	.6	3.6	26.3	45.1	21.9	2.5	.1	15.6	100.0	727
0609	.6	2.7	27.9	47.3	19.2	2.4	.0	15.5	100.0	673
1215	1.5	2.9	34.0	41.0	17.9	2.6	.1	14.7	100.0	798
1821	1.1	1.4	30.5	45.7	18.8	2.4	.0	15.1	100.0	702
TOT	28	77	864	1294	563	72	.1	15.2	100.0	2900
PCT	1.0	2.7	29.8	44.6	19.4	2.5	.1			

TABLE 5

WIND DIR	PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION						TOTAL OBS
	0-2	3-4	5-7	8-6	UBSCD	MEAN CLOUD COVER	
N	4.4	3.7	10.5	13.2		5.9	
NE	1.6	1.5	2.7	5.5		6.0	
E	.3	1.1	1.8	3.6		6.4	
SE	.8	.8	1.3	1.2		5.2	
S	.3	.3	1.2	2.7		6.4	
SW	1.4	.8	2.5	1.9		6.1	
W	1.4	1.0	2.9	2.5		5.5	
NW	4.2	3.0	10.5	8.6		5.6	
VAR	.0	.0	.0	.0		.0	
CALM	.4	.2	.3	.1		3.6	
TOT OBS	127	113	304	352		5.8	896
TOT PCT	14.2	12.6	33.9	39.3			100.0

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8 AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION											
WIND DIR	000		150		300		600		1000		TOTAL OBS
	149	299	149	299	599	599	999	999	1999	3499	
N	.0	.0	.0	.0	.5	4.2	8.6	6.9	1.2	.1	
NE	.0	.0	.0	.0	.3	1.0	3.0	1.9	.5	.2	
E	.0	.0	.0	.0	.1	.7	1.8	1.5	.3	.0	
SE	.0	.0	.0	.0	.0	.4	.4	.7	.2	.0	
S	.0	.0	.0	.0	.2	.8	.9	.6	.2	.0	
SW	.1	.1	.1	.1	.3	.3	1.6	1.0	.1	.0	
W	.0	.0	.0	.0	.1	.9	2.0	2.2	.1	.1	
NW	.0	.0	.0	.0	.5	2.0	7.0	6.1	.4	.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.1	.1	.2	.2	.0	
TOT OBS	1	2	17	94	229	187	27	3.0	.8		
TOT PCT	.1	.2	1.9	10.5	25.6	20.9	.8				

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CELLING (FEET)	OR		OR		OR		OR		OR		OR		OR	
	>10	>5	>2	>1	>1/2	>1/4	>30YD	>0	>10	>5	>2	>1	>1/2	>1/4
OR >6500	.1	.4	.4	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6
OR >5000	.9	1.3	1.3	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
OR >3500	3.2	4.4	4.4	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
OR >2000	19.4	24.9	25.1	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2
OR >1000	35.9	46.8	50.3	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4
OR >600	41.3	57.9	60.7	60.8	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9
OR >300	42.0	59.3	62.3	62.7	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8
OR >150	42.2	59.5	62.5	62.9	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1
OR >0	42.2	59.5	62.5	63.1	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
TOTAL	378	533	561	565	566	566	566	566	566	566	566	566	566	566

TOTAL NUMBER OF OBS: 896

PCT FREQ NH <5/8: 36.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	DBSCO	TOTAL OBS
	5.5	5.7	8.3	8.4	8.7	8.7	13.4	10.3	30.7	.2	950

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1859-1970

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL DSS
PCP	#	#	#	#	#	#	#	#	#	#	#	#
<1/2	0	0	0	0	0	0	0	0	0	0	0	0
NO PCP	#	#	#	#	#	#	#	#	#	#	#	#
TOT %												
1/2<1	0	0	0	0	0	0	0	0	0	0	0	0
NO PCP	#	#	#	#	#	#	#	#	#	#	#	#
TOT %												
1<2	0	0	0	0	0	0	0	0	0	0	0	0
NO PCP	#	#	#	#	#	#	#	#	#	#	#	#
TOT %												
2<5	0	0	0	0	0	0	0	0	0	0	0	0
NO PCP	#	#	#	#	#	#	#	#	#	#	#	#
TOT %												
5<10	0	0	0	0	0	0	0	0	0	0	0	0
NO PCP	#	#	#	#	#	#	#	#	#	#	#	#
TOT %												
10+	0	0	0	0	0	0	0	0	0	0	0	0
NO PCP	#	#	#	#	#	#	#	#	#	#	#	#
TOT %												
TOT DSS	31.1	12.4	6.6	4.8	4.1	4.1	6.3	29.9	0	0	0	249%
TOT BCT												

PERIOD: (PRIMARY) 1924-1970
(OVER-ALL) 1859-1970

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29.9N 130.0E

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.1	.1	.1	.0	.0	.0	.0	.1	.0	.0	.1
	11-21	.0	.1	.1	.0	.0	.0	.0	.1	.0	.0	.1
	TOT %	.2	.2	.2	.1	.1	.1	.1	.2	.0	.0	.2
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.1	.0	.0	.0	.1	.0	.1	.0	.0	.1
	11-21	.1	.1	.1	.0	.1	.1	.0	.1	.0	.0	.1
	TOT %	.1	.2	.1	.1	.1	.1	.1	.2	.0	.0	.2
1<2	0-3	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
	4-10	.2	.1	.1	.1	.0	.0	.1	.4	.0	.0	.2
	11-21	.3	.3	.1	.1	.0	.0	.1	.3	.0	.0	.3
	TOT %	.7	.5	.2	.1	.1	.1	.1	.8	.0	.0	.8
2<3	0-3	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.1
	4-10	.7	.1	.1	.1	.1	.2	.1	.3	.0	.0	.7
	11-21	.8	.5	.4	.2	.1	.1	.2	.9	.0	.0	.8
	TOT %	2.0	1.1	.6	.5	.3	.3	.4	2.0	.0	.0	2.0
3<10	0-3	.1	.1	.1	.1	.1	.1	.1	.1	.0	.1	.1
	4-10	1.3	1.0	.7	.6	.3	.3	.5	1.2	.0	.0	1.3
	11-21	3.9	1.8	.7	.6	.6	.4	.8	3.3	.0	.0	3.9
	TOT %	5.3	3.0	1.6	1.3	.5	.9	1.4	5.3	.0	.1	5.3
10+	0-3	.4	.5	.2	.2	.1	.1	.1	.1	.0	.7	.4
	4-10	6.9	3.7	1.8	.8	.8	1.0	1.3	4.9	.0	.0	6.9
	11-21	10.0	2.8	1.7	1.4	.9	.9	1.7	9.0	.0	.0	10.0
	TOT %	17.3	7.0	3.7	2.4	1.8	2.9	3.6	14.0	.0	.7	17.3
TOT OBS		31.3	12.6	6.5	4.0	4.1	3.9	6.2	29.8	.0	.8	2713
TOT PCT												100.0

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PERIOD (PRIMARY) 1934-1970
(OVER-ALL) 1959-1970

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3999	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.4	.9	10.9	25.8	24.5	2.2	1.3	.0	.0	65.9	34.1	229
06009	.0	.0	3.4	9.0	27.4	23.1	3.8	.9	.4	.4	68.4	31.6	234
12015	.0	.4	2.2	9.9	22.9	14.3	2.7	.4	.0	.4	53.4	46.6	223
18021	.4	.0	.9	11.2	23.7	19.4	3.0	.9	.4	.4	60.3	39.7	232
TOT PCT	1 .1	2 .2	17 1.9	94 10.2	229 24.9	187 20.4	27 2.9	8 .9	2 .2	3 .3	570 62.1	348 37.9	918 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.0	.0	1.8	21.8	76.4	225
06009	.0	.4	.9	3.1	21.5	74.1	228
12015	.0	.0	.5	4.2	29.2	66.2	216
18021	.0	.4	.9	5.3	25.9	67.5	228
TOT PCT	0 .0	2 .2	5 .6	32 3.6	220 24.5	638 71.1	897 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET) NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	1.3	12.9	53.8	33.3	225
06009	.0	3.9	15.4	54.4	30.3	228
12015	.0	2.8	15.3	39.8	44.9	216
18021	.9	2.2	15.7	46.5	36.8	228
TOT PCT	2 .2	23 2.6	135 15.1	437 48.7	325 36.2	897 100.0

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PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1859-1970

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TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	.0	.0	.1	.1	.1	.0	3	.4
70/74	.0	.0	.0	.1	.5	.8	.8	.8	23	3.0
65/69	.0	.0	.3	1.3	2.9	4.1	4.1	2.0	112	14.8
60/64	.0	.0	.3	3.3	4.6	7.1	4.4	2.5	168	22.2
55/59	.0	.0	1.6	6.0	9.8	6.7	3.6	2.2	228	30.2
50/54	.0	.0	.5	3.6	8.6	4.9	2.8	1.2	163	21.6
45/49	.0	.0	.1	.8	2.4	2.1	1.3	.6	56	7.4
40/44	.0	.0	.0	.0	.3	.1	.0	.0	3	.4
TOTAL	.0	.2	2.2	11.4	22.1	19.7	12.9	7.1	756	100.0
PCT	.0	.3	2.9	15.1	29.2	26.1	17.1	9.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
75/79	.0	.0	.0	.1	.0	.1	.0	.1	.0	.0
70/74	.0	.1	.3	.1	.8	1.2	.5	.1	.0	.0
65/69	1.9	1.1	1.1	1.9	2.1	2.4	1.3	2.4	.0	.7
60/64	6.0	4.0	3.0	1.1	1.0	.7	1.7	4.6	.0	.1
55/59	11.8	4.8	1.7	.3	.4	.9	2.1	7.8	.0	.4
50/54	9.2	2.8	.5	.1	.1	.3	1.2	7.4	.0	.0
45/49	4.3	.3	.1	.0	.0	.0	.1	2.6	.0	.0
40/44	.1	.0	.0	.0	.0	.0	.0	.3	.0	.0
TOTAL	33.3	13.1	6.7	3.5	4.4	5.6	6.9	25.3	.0	1.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	77	71	68	57	47	43	39	57.3	707
0600	75	72	68	57	46	45	39	57.7	672
1215	71	69	67	55	46	41	37	56.0	787
1821	77	70	67	55	46	39	37	55.9	694
TOT	77	70	68	56	46	43	37	56.7	2864

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	15.7	33.0	24.1	17.8	9.4	71	191
0600	.0	22.6	29.2	26.7	11.8	9.7	70	195
1215	.0	19.7	29.3	24.5	18.1	8.5	71	188
1821	.0	14.2	25.8	27.9	21.6	10.5	73	190
TOT	0	138	224	197	132	73	71	764

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1859-1970

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TABLE 17

P-T FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	37	41	45	49	53	57	61	65	69	73	77	TOT	W	WD
	40	44	48	52	56	60	64	68	72	76	80		FOG	FOG
11/13	.0	.0	.0	.0	.0	.0	*	*	.0	*	.0	3	.0	.1
9/10	.0	.0	.0	.0	.0	*	*	*	.0	.0	.0	3	.0	.1
7/8	.0	.0	.0	.0	.0	*	.1	*	.1	*	.0	8	.0	.3
6	.0	.0	.0	.0	.0	*	.0	*	.1	*	.0	4	.0	.2
5	.0	.0	.0	.0	.0	.1	.0	.0	.1	*	.0	9	.0	.4
4	.0	.0	.0	.0	.0	.1	.3	.2	.1	.2	.0	22	.0	.9
3	.0	.0	.0	.0	.0	*	*	*	.0	.0	.0	3	.0	.1
2	.0	.0	.0	.0	.0	.1	.3	.5	.3	*	.0	28	.0	1.2
1	.0	.0	.0	.0	.0	.1	.0	.4	.3	.0	*	18	.0	.8
0	.0	.0	.0	.0	.1	.4	1.1	1.5	.5	.0	.0	91	*	3.8
-1	.0	.0	.0	.0	*	*	.2	.7	.3	.0	.0	29	*	1.2
-2	.0	.0	.0	.1	.4	.4	2.1	1.1	.7	.0	*	116	.0	4.9
-3	.0	.0	.0	*	*	.2	.5	.4	.0	.0	.0	27	.0	1.1
-4	.0	.0	.0	.3	.6	1.0	3.8	1.3	.2	.0	.0	173	.0	7.3
-5	.0	.0	*	.6	1.1	2.1	4.2	.9	.0	.0	.0	211	.0	8.9
-6	.0	.0	.0	.0	.2	.6	.6	.2	.0	.0	.0	39	.0	1.6
-7/-8	.0	.0	.2	1.0	3.0	4.2	3.1	.3	.0	.0	.0	280	*	11.7
-9/-10	.0	.0	.6	1.3	4.2	4.2	1.8	.2	.0	.0	.0	294	*	12.3
-11/-13	.0	.1	1.6	6.4	8.7	4.2	.4	.0	.0	.0	.0	507	.0	21.3
-14/-16	.1	.2	2.9	4.7	4.2	.8	*	.0	.0	.0	.0	308	.1	12.8
-17/-19	.2	*	1.7	1.5	1.1	.2	.0	.0	.0	.0	.0	112	.0	4.7
-20/-22	.1	.2	1.1	1.1	.4	.0	.0	.0	.0	.0	.0	71	.0	3.0
-23/-25	.0	.1	.3	.2	.1	.0	.0	.0	.0	.0	.0	17	.0	.7
-26/-30	.0	*	.1	.1	.0	.0	.0	.0	.0	.0	.0	7	.0	.3
TOTAL	9	19	205	420	580	446	441	186	63	9	2	2380	6	2374
PCT	.4	.8	8.6	17.6	24.4	18.7	18.5	7.8	2.6	.4	.1	100.0	.3	99.7

PERIOD: (OVER-ALL) 1963-1970

FEBRUARY
TABLE 18

AREA 0008 YAKU SHIMA
29.9N 130.0E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	1-3	4-10	11-21	22-33	34-47	48+	PCT	N	1-3	4-10	11-21	22-33	34-47	48+	PCT	NE	1-3	4-10	11-21	22-33	34-47	48+	PCT
TOT	.0	.4	.0	.0	.0	.0	.4		.0	.8	.0	.0	.0	.0	.8		.0	.8	.0	.0	.0	.0	.8
<1	.0	.4	.0	.0	.0	.0	.4		.0	.8	.0	.0	.0	.0	.8		.0	.8	.0	.0	.0	.0	.8
1-2	.0	.4	.0	.0	.0	.0	.4		.0	.8	.0	.0	.0	.0	.8		.0	.8	.0	.0	.0	.0	.8
3-4	.0	.4	.0	.0	.0	.0	.4		.0	.8	.0	.0	.0	.0	.8		.0	.8	.0	.0	.0	.0	.8
5-6	.0	.4	.0	.0	.0	.0	.4		.0	.8	.0	.0	.0	.0	.8		.0	.8	.0	.0	.0	.0	.8
7	.0	.4	.0	.0	.0	.0	.4		.0	.8	.0	.0	.0	.0	.8		.0	.8	.0	.0	.0	.0	.8
8-9	.0	.4	.0	.0	.0	.0	.4		.0	.8	.0	.0	.0	.0	.8		.0	.8	.0	.0	.0	.0	.8
10-11	.0	.4	.0	.0	.0	.0	.4		.0	.8	.0	.0	.0	.0	.8		.0	.8	.0	.0	.0	.0	.8
12	.0	.4	.0	.0	.0	.0	.4		.0	.8	.0	.0	.0	.0	.8		.0	.8	.0	.0	.0	.0	.8
13-16	.0	.4	.0	.0	.0	.0	.4		.0	.8	.0	.0	.0	.0	.8		.0	.8	.0	.0	.0	.0	.8
17-19	.0	.4	.0	.0	.0	.0	.4		.0	.8	.0	.0	.0	.0	.8		.0	.8	.0	.0	.0	.0	.8
20-22	.0	.4	.0	.0	.0	.0	.4		.0	.8	.0	.0	.0	.0	.8		.0	.8	.0	.0	.0	.0	.8
23-25	.0	.4	.0	.0	.0	.0	.4		.0	.8	.0	.0	.0	.0	.8		.0	.8	.0	.0	.0	.0	.8
26-32	.0	.4	.0	.0	.0	.0	.4		.0	.8	.0	.0	.0	.0	.8		.0	.8	.0	.0	.0	.0	.8
33-40	.0	.4	.0	.0	.0	.0	.4		.0	.8	.0	.0	.0	.0	.8		.0	.8	.0	.0	.0	.0	.8
41-48	.0	.4	.0	.0	.0	.0	.4		.0	.8	.0	.0	.0	.0	.8		.0	.8	.0	.0	.0	.0	.8
49-60	.0	.4	.0	.0	.0	.0	.4		.0	.8	.0	.0	.0	.0	.8		.0	.8	.0	.0	.0	.0	.8
61-70	.0	.4	.0	.0	.0	.0	.4		.0	.8	.0	.0	.0	.0	.8		.0	.8	.0	.0	.0	.0	.8
71-86	.0	.4	.0	.0	.0	.0	.4		.0	.8	.0	.0	.0	.0	.8		.0	.8	.0	.0	.0	.0	.8
87+	.0	.4	.0	.0	.0	.0	.4		.0	.8	.0	.0	.0	.0	.8		.0	.8	.0	.0	.0	.0	.8
TOT PCT	.2	8.0	18.6	8.0	.2	.0	35.1		.2	3.8	6.4	2.1	.0	.0	12.6		.2	3.8	6.4	2.1	.0	.0	12.6

	1-3	4-10	11-21	22-33	34-47	48+	PCT	E	1-3	4-10	11-21	22-33	34-47	48+	PCT	SE	1-3	4-10	11-21	22-33	34-47	48+	PCT
TOT	.0	.4	.0	.0	.0	.0	.4		.0	.8	.0	.0	.0	.0	.8		.0	.8	.0	.0	.0	.0	.8
<1	.0	.4	.0	.0	.0	.0	.4		.0	.8	.0	.0	.0	.0	.8		.0	.8	.0	.0	.0	.0	.8
1-2	.0	.4	.0	.0	.0	.0	.4		.0	.8	.0	.0	.0	.0	.8		.0	.8	.0	.0	.0	.0	.8
3-4	.0	.4	.0	.0	.0	.0	.4		.0	.8	.0	.0	.0	.0	.8		.0	.8	.0	.0	.0	.0	.8
5-6	.0	.4	.0	.0	.0	.0	.4		.0	.8	.0	.0	.0	.0	.8		.0	.8	.0	.0	.0	.0	.8
7	.0	.4	.0	.0	.0	.0	.4		.0	.8	.0	.0	.0	.0	.8		.0	.8	.0	.0	.0	.0	.8
8-9	.0	.4	.0	.0	.0	.0	.4		.0	.8	.0	.0	.0	.0	.8		.0	.8	.0	.0	.0	.0	.8
10-11	.0	.4	.0	.0	.0	.0	.4		.0	.8	.0	.0	.0	.0	.8		.0	.8	.0	.0	.0	.0	.8
12	.0	.4	.0	.0	.0	.0	.4		.0	.8	.0	.0	.0	.0	.8		.0	.8	.0	.0	.0	.0	.8
13-16	.0	.4	.0	.0	.0	.0	.4		.0	.8	.0	.0	.0	.0	.8		.0	.8	.0	.0	.0	.0	.8
17-19	.0	.4	.0	.0	.0	.0	.4		.0	.8	.0	.0	.0	.0	.8		.0	.8	.0	.0	.0	.0	.8
20-22	.0	.4	.0	.0	.0	.0	.4		.0	.8	.0	.0	.0	.0	.8		.0	.8	.0	.0	.0	.0	.8
23-25	.0	.4	.0	.0	.0	.0	.4		.0	.8	.0	.0	.0	.0	.8		.0	.8	.0	.0	.0	.0	.8
26-32	.0	.4	.0	.0	.0	.0	.4		.0	.8	.0	.0	.0	.0	.8		.0	.8	.0	.0	.0	.0	.8
33-40	.0	.4	.0	.0	.0	.0	.4		.0	.8	.0	.0	.0	.0	.8		.0	.8	.0	.0	.0	.0	.8
41-48	.0	.4	.0	.0	.0	.0	.4		.0	.8	.0	.0	.0	.0	.8		.0	.8	.0	.0	.0	.0	.8
49-60	.0	.4	.0	.0	.0	.0	.4		.0	.8	.0	.0	.0	.0	.8		.0	.8	.0	.0	.0	.0	.8
61-70	.0	.4	.0	.0	.0	.0	.4		.0	.8	.0	.0	.0	.0	.8		.0	.8	.0	.0	.0	.0	.8
71-86	.0	.4	.0	.0	.0	.0	.4		.0	.8	.0	.0	.0	.0	.8		.0	.8	.0	.0	.0	.0	.8
87+	.0	.4	.0	.0	.0	.0	.4		.0	.8	.0	.0	.0	.0	.8		.0	.8	.0	.0	.0	.0	.8
TOT PCT	.2	2.9	2.8	.2	.0	.0	6.1		.3	1.0	2.3	.7	.0	.0	4.3		.3	1.0	2.3	.7	.0	.0	4.3

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
H0T														
<1	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.5
1-2	.0	.4	.9	.0	.0	.0	1.3	.0	.3	.8	.0	.0	.0	1.0
3-4	.0	.2	.6	.0	.0	.0	.8	.0	.0	.8	.2	.0	.0	1.0
5-6	.0	.0	.7	.0	.2	.0	1.2	.0	.2	1.0	.0	.0	.0	.7
7	.0	.0	.7	.0	.0	.0	.7	.0	.2	.5	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.9	2.8	.0	.2	.0	3.9	.0	1.3	3.0	.5	.0	.0	4.7

	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
H0T														
<1	.0	.4	.0	.0	.0	.0	.4	.2	.9	.0	.0	.0	.0	1.2
1-2	.0	.5	.3	.0	.0	.0	.8	.0	1.0	2.5	.0	.0	.0	3.5
3-4	.0	.7	1.2	.0	.0	.0	1.9	.0	2.4	6.3	.1	.0	.0	8.7
5-6	.0	.0	1.1	.2	.0	.0	1.3	.0	.9	3.1	.5	.0	.0	4.5
7	.0	.2	.4	.0	.0	.0	.6	.0	.1	1.7	3.0	.7	.0	5.4
8-9	.0	.0	.0	.0	.0	.0	.2	.0	.0	.3	1.4	.0	.0	1.8
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	1.1
12	.0	.0	.0	.2	.0	.0	.4	.0	.0	.0	.2	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.8	3.0	.6	.2	.0	5.6	.2	5.3	13.9	6.4	.9	.0	26.8

FEBRUARY

AREA 0008 YAKU SHIMA
29.9N 130.0E

PERIOD: (OVER-ALL) 1949-1970

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)							TOT OBS
	0-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	1.6	3.4	.0	.0	.0	.0	5.1	435
1-2	.9	9.2	9.9	.0	.0	.0	20.0	
3-4	.2	8.7	20.0	1.1	.0	.0	30.1	
5-6	.0	2.5	13.6	2.5	.2	.0	18.9	
7	.0	.5	7.1	6.9	.7	.0	15.2	
8-9	.0	.5	1.4	3.0	.0	.0	4.8	
10-11	.0	.0	.5	2.8	.0	.0	3.2	
12	.0	.0	.0	1.4	.2	.0	1.6	
13-16	.0	.0	.0	.5	.2	.0	.7	
17-19	.0	.0	.0	.0	.2	.0	.2	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.2	.0	.0	.2	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.8	24.8	52.4	18.4	1.6	.0	100.0	

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	1.5	11.0	17.5	7.7	4.3	1.9	.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	329	4
6-7	.1	7.4	7.0	10.0	6.5	1.2	.9	.8	.5	.1	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	223	6
8-9	.0	.4	1.8	2.0	5.1	1.2	1.4	.7	.0	.4	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	97	7
10-11	.0	.1	.3	.7	.9	1.2	.9	.3	.5	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	38	9
12-13	.0	.0	.4	.3	.0	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	6
>13	.0	.0	.0	.3	.0	.1	.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	9
INDET	1.5	.5	1.6	.8	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	38	3
TOTAL	23	107	211	161	127	46	28	18	9	4	2	1	2	0	0	0	0	0	0	0	739	5
PCT	3.1	14.5	28.6	21.8	17.2	6.2	3.8	2.4	1.2	.5	.3	.1	.3	.0	.0	.0	.0	.0	.0	.0	100.0	

MARCH

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1857-1970

AREA 0008 YAKU SHIMA
30.0N 130.0E

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	SHMR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT OB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				FRZG	PCPN	SNOW					PCPN	WD	HAZE	BLWG	DUST	
N	1.5	.4	.6	.0	.0	.0	.0	2.4		*	.2	.2	.0	.0	.0	24.0
NE	1.6	.1	.5	.0	.0	.0	.0	2.2		.0	*	*	.0	.0	.0	10.7
E	1.0	.2	.2	.0	.0	.0	.0	1.4		*	.1	.0	.0	.0	*	6.7
SE	1.6	.1	.2	.1	.0	.0	.0	1.9		*	.1	.0	.0	.0	.0	6.2
S	1.0	.1	.3	.0	.0	.0	.0	1.3		.1	.1	*	.0	.0	.0	5.7
SW	.8	.1	.3	.0	.0	.0	.0	1.1		.0	.0	.1	.0	.0	.0	4.8
W	.5	.1	.3	.0	.0	.0	.0	.8		.1	.1	.1	.0	.0	.0	6.3
NW	.9	.4	.3	.0	.0	.0	.0	1.6		*	.1	.1	.0	.0	.0	20.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	*		.0	.0	.0	.0	.0	.0	.0
TOT OBS	256	42	78	3	0	0	0		375	7	18	17	1	2496	*	2914
TOT PCT	8.8	1.4	2.7	.1	.0	.0	.0	12.9		.2	.6	.6				85.7

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	SHMR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT OB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				FRZG	PCPN	SNOW					PCPN	WD	HAZE	BLWG	DUST	
0003	8.1	1.4	3.1	.0	.0	.0	.0	12.3		.0	.6	.7	.0	.1	.0	86.3
0609	6.5	1.7	2.6	.1	.0	.0	.0	10.8		.0	.6	1.1	.0	.0	.0	87.5
12015	9.9	1.7	2.2	.3	.0	.0	.0	13.9		.5	1.0	.3	.0	.0	.0	84.3
18021	10.1	.9	3.0	.0	.0	.0	.0	14.1	377	.4	.4	.3	.0	.0	.0	84.8
TOT	257	42	79	3	0	0	0			7	19	17	1	2520	*	2941
PCT	8.7	1.4	2.7	.1	.0	.0	.0	12.8		.2	.6	.6				85.7

PERIOD: (PRIMARY) 1934-1970
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AREA 0008 YAKU SHIMA
30.ON 130.0E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)									
	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD		00	03	06	09	12	15	18	21		
N	.5	7.8	12.8	5.0	.4	.0	26.6	13.3	15.0		27.9	28.5	22.4	25.5	25.6	27.5	23.3	28.3		
NE	.6	5.4	5.7	1.5	.1	.0	13.3	13.3	12.7		10.5	15.8	16.5	13.4	13.6	12.3	12.1	12.5		
E	.4	3.0	3.9	1.1	.1	.0	8.5	8.5	13.6		10.3	8.3	9.7	8.5	6.4	8.3	9.4	8.1		
SE	.5	2.9	3.5	1.1	.1	.0	8.1	8.1	13.3		9.1	7.1	6.3	9.5	6.4	8.9	8.7	8.0		
S	.4	2.2	3.2	1.3	.1	.0	7.2	7.2	14.7		8.9	6.8	6.6	6.6	6.3	6.2	6.8	7.9		
SW	.4	2.1	2.0	1.0	.0	.0	5.5	5.5	13.6		5.1	4.9	7.9	5.9	5.6	5.2	6.8	4.4		
W	.3	2.5	2.7	1.5	.2	.0	7.1	7.1	14.8		7.5	5.3	8.1	6.3	11.0	6.6	9.4	5.8		
NW	.5	5.0	10.2	6.2	.7	.0	22.6	22.6	17.1		19.0	22.5	21.8	23.4	20.5	24.4	21.9	24.7		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0		
CALM	1.0	1069	1522	647	58	2	3457	1.0	14.7		1.7	.7	.6	.9	2.4	.6	1.9	.2		
TOT OBS	159	44.0	18.7	1.7	.1			100.0			358	539	308	460	330	621	313	926		
TOT PCT	4.6	30.9									100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)									
	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD			00	03	06	09	12	15	18	21		
N	2.7	13.6	8.2	2.0	*	26.6	15.0				28.3	24.3	26.9	26.4						
NE	2.6	7.0	3.3	.4	*	13.3	12.7				13.7	14.6	12.7	12.4						
E	1.5	3.7	3.0	.4	.0	8.5	13.6				9.1	9.0	7.6	8.6						
SE	1.4	4.1	2.1	.3	.1	8.1	13.3				7.9	6.2	8.0	8.3						
S	1.2	3.2	2.2	.5	.1	7.2	14.7				7.7	6.6	6.9	7.5						
SW	1.2	2.4	1.6	.3	*	5.5	13.6				5.0	6.7	5.3	5.3						
W	1.2	3.2	2.2	.4	.1	7.1	14.8				6.2	7.0	8.1	7.2						
NW	2.2	8.8	8.9	2.6	.1	22.6	17.1				21.1	22.8	23.1	23.5						
VAR	.0	.0	.0	.0	.0	.0	.0				.0	.0	.0	.0						
CALM	1.0	1592	1093	240	13	3457	1.0	14.7			1.1	.8	1.3	.8						
TOT OBS	519	46.1	31.6	6.9	.4						897	768	951	841						
TOT PCT	15.0										100.0	100.0	100.0	100.0						

MARCH

PERIOD: (PRIMARY) 1934-1970
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AREA 0008 YAKU SHIMA
30.0N 130.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	1.1	2.6	28.7	44.4	20.8	2.5	.0	15.4	100.0	897
0600	.8	2.9	29.2	45.8	19.5	1.6	.3	15.0	100.0	768
1200	1.3	4.5	33.3	42.4	17.0	1.5	.0	14.0	100.0	951
1800	.8	4.3	32.2	43.9	17.6	1.2	.0	14.2	100.0	841
TOT	35	124	1069	1522	647	58	2	14.7		3457
PCT	1.0	3.6	30.9	44.0	18.7	1.7	.1		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-10	DBSCD	MEAN CLOUD COVER		TOTAL OBS
						CLD	COVER	
N	3.3	3.4	7.2	9.2		5.7		
NE	1.8	2.2	3.2	4.4		5.6		
E	1.3	.7	2.2	4.2		6.1		
SE	.9	.6	1.9	3.9		6.3		
S	1.3	.6	3.4	4.1		6.1		
SW	1.5	.8	2.4	3.8		5.9		
W	1.8	1.8	3.2	3.4		5.4		
NW	2.9	4.2	6.5	6.4		5.4		
VAR	.0	.0	.0	.0		.0		
CALM	.6	1.1	.2	.6		4.4		
TOT OBS	158	146	309	408		5.7		1021
TOT PCT	15.5	14.3	30.3	40.0				100.0

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	000	149	150	299	300	599	600	999	1000	2000	3499	4999	5000	6499	7999	8000+	NH <5/8	ANY HGT	TOTAL OBS
N	.1	.1	.1	.1	.2	.3	1.5	.7	7.0	4.1	.4	.4	.0	.4	.4	.1	.1	.1	9.3
NE	.2	.2	.2	.2	.5	.5	.6	.7	3.1	1.6	.5	.5	.1	.1	.1	.0	.0	.0	5.1
E	.2	.2	.2	.2	.5	.5	.6	.7	1.9	1.2	.1	.1	.3	.0	.0	.1	.1	.1	3.5
SE	.4	.4	.4	.4	.2	.2	.7	.7	2.1	1.2	.3	.3	.0	.1	.1	.1	.1	.1	2.7
S	.2	.2	.2	.2	.4	.4	1.4	.9	1.2	1.2	.1	.1	.1	.1	.1	.2	.2	.2	3.5
SW	.2	.2	.2	.2	.4	.4	.6	.6	1.9	.6	.2	.2	.1	.0	.0	.1	.1	.1	4.1
W	.1	.1	.1	.1	.4	.4	1.9	.6	3.6	3.7	.8	.8	.0	.1	.1	.2	.2	.2	9.1
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS	12	12	1	27	85	253	150	26	7	.8	1.1	4.1	.9	.8	.8	.8	.8	.8	1021
TOT PCT	1.2	1.2	.1	2.6	8.3	24.8	14.7	2.5	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	100.0

PERIOD: (PRIMARY) 1934-1970
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MARCH

AREA 0008 YAKU SHIMA
30.0N 130.0E

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	VSBY (NH) = OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	1.5	1.7	1.9	1.9	1.9	1.9	1.9	1.9
= OR >5000	1.9	2.4	2.5	2.5	2.5	2.5	2.5	2.5
= OR >3500	4.0	4.8	5.0	5.0	5.0	5.0	5.0	5.0
= OR >2000	13.3	18.4	19.5	19.5	19.5	19.5	19.5	19.5
= OR >1000	26.9	40.8	44.1	44.3	44.3	44.3	44.3	44.3
= OR >600	30.7	47.9	52.3	52.7	52.7	52.7	52.7	52.7
= OR >300	31.3	49.5	54.7	55.2	55.3	55.3	55.3	55.3
= OR >150	31.3	49.5	54.8	55.3	55.4	55.4	55.4	55.4
= OR >0	31.4	50.0	55.8	56.5	56.6	56.6	56.6	56.6
TOTAL	321	511	570	577	578	578	578	578

TOTAL NUMBER OF OBS: 1021

PCT FREQ NH <5/8: 43.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
7.1	6.8	10.5	9.6	8.5	8.7	11.6	10.5	25.7	1.0	1085	

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1857-1970

MARCH

AREA 0008 YAKU SHIMA
30.0N 130.0E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	.0	.1	*	.1	*	.0	*	*	.0	.0	.2	
NO PCP	*	.0	.0	.0	.0	.0	.0	*	.0	.0	*	
TOT %	*	.1	*	.1	*	.0	*	*	.0	.0	.2	
1/2<1	.1	.1	*	.2	.1	.2	*	.1	.0	.0	.8	
NO PCP	.0	.0	.0	.1	.1	.0	*	.1	.0	.0	.2	
TOT %	.1	.1	*	.2	.1	.2	.1	.2	.0	.0	1.0	
1<2	.4	.2	.3	.2	.1	.1	.1	.1	.0	.0	1.4	
NO PCP	.2	.1	.0	.1	*	.0	.1	.1	.0	.0	.5	
TOT %	.5	.2	.3	.2	.2	.1	.1	.2	.0	.0	1.9	
2<5	.5	.4	.2	.3	.5	.3	.2	.3	.0	.0	2.8	
NO PCP	.4	.1	.2	.1	.2	.1	.3	.4	.0	.1	2.0	
TOT %	.9	.6	.5	.4	.7	.4	.5	.7	.0	.1	4.8	
5<10	1.1	1.0	.6	1.0	.4	.4	.4	.7	.0	*	5.7	
NO PCP	5.2	2.7	1.6	1.5	1.5	1.4	1.9	5.7	.0	.1	21.6	
TOT %	6.4	3.7	2.2	2.5	1.9	1.7	2.3	6.4	.0	.2	27.3	
10+	.4	.5	.2	.2	.1	.1	.1	.4	.0	.0	2.0	
NO PCP	18.6	7.9	5.0	4.5	4.2	3.4	4.2	14.4	.0	.5	62.8	
TOT %	19.0	8.4	5.2	4.7	4.3	3.5	4.3	14.8	.0	.5	64.9	
TOT OBS												2911
TOT PCT	26.9	13.0	8.3	8.1	7.2	6.0	7.3	22.4	.0	.8	100.0	

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1857-1970

MARCH

AREA 0003 YAKU SHIMA
30.0N 130.0E

TABLE 9
PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2
	11-21	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.2
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	TOT %	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.5
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1
	11-21	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.3
	22+	.0	.0	.0	.1	.1	.1	.1	.2	.0	.0	.6
	TOT %	.1	.1	.0	.2	.1	.2	.1	.2	.0	.0	1.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.2	.2	.3	.1	.1	.1	.1	.3	.0	.0	.7
	11-21	.4	.2	.1	.1	.2	.1	.0	.2	.0	.0	1.5
	22+	.2	.1	.1	.0	.2	.1	.0	.2	.0	.0	.9
	TOT %	.9	.3	.4	.2	.3	.2	.1	.7	.0	.0	3.2
2<5	0-3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.1	.3
	4-10	.5	.2	.2	.1	.1	.2	.2	.2	.0	.0	1.7
	11-21	.7	.5	.4	.2	.5	.2	.2	.9	.0	.0	3.6
	22+	.5	.4	.2	.2	.3	.1	.3	.6	.0	.0	2.7
	TOT %	1.7	1.2	.8	.5	.9	.6	.8	1.7	.0	.1	8.4
5<10	0-3	.2	.2	.1	.1	.0	.1	.0	.0	.0	.2	.9
	4-10	1.5	1.2	.5	.6	.5	.4	.7	1.3	.0	.0	6.7
	11-21	2.7	1.6	1.1	1.2	.9	.7	.8	2.4	.0	.0	11.4
	22+	1.5	.5	.4	.4	.5	.4	.5	2.3	.0	.0	6.4
	TOT %	5.9	3.5	2.1	2.3	1.8	1.6	2.1	6.0	.0	.2	25.5
10+	0-3	.2	.3	.3	.4	.3	.2	.2	.5	.0	.6	3.1
	4-10	5.7	3.7	2.1	2.0	1.6	1.5	1.5	3.3	.0	.0	21.5
	11-21	9.1	3.4	2.2	1.8	1.8	1.1	1.6	6.6	.0	.0	27.6
	22+	3.1	.5	.4	.3	.3	.3	.7	3.7	.0	.0	9.3
	TOT %	18.2	7.9	5.0	4.5	4.1	3.3	4.0	14.0	.0	.6	61.5
TOT OBS												3184
TOT PCT		27.0	13.1	8.4	7.8	7.2	5.8	7.1	22.7	.0	.9	100.0

MARCH

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1857-1970

AREA 0008 YAKU SHIMA
30.ON 130.0E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00603	.7	.4	2.9	5.8	25.5	12.9	2.9	.4	1.4	1.8	54.7	49.3	278
06609	.7	.0	3.3	5.1	26.1	16.2	1.5	1.1	.4	1.1	55.5	44.5	272
12615	2.0	.0	2.7	11.8	21.6	14.5	3.1	.4	1.2	.4	57.6	42.4	255
18621	1.3	.0	1.3	10.9	23.9	13.9	2.5	.8	.0	.8	55.5	44.5	238
TOT	12	1	27	86	254	150	26	7	8	11	582	461	1043
PCT	1.2	.1	2.6	8.2	24.4	14.4	2.5	.7	.8	1.1	55.8	44.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	< 1/2	1/2 < 1	1 < 2	2 < 5	5 < 10	10+	TOTAL OBS
00603	.0	.0	1.1	5.6	23.7	69.0	270
06609	.0	.4	.4	7.1	20.1	72.1	269
12615	.0	.0	.4	7.2	29.1	63.3	251
18621	.0	.0	.9	4.3	26.9	67.9	234
TOT	0	1	7	62	254	700	1024
PCT	.0	.1	.7	6.1	24.8	68.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH > 4/8), BY HOUR

HOUR (GMT)	< 150 < 50YD	< 600 < 1	< 1000 < 5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00603	1.1	4.4	14.4	42.6	43.0	270
06609	.7	4.1	13.8	42.0	44.2	269
12615	2.8	5.2	21.1	38.2	40.6	251
18621	1.7	3.0	16.2	39.7	44.0	234
TOT	16	43	167	417	440	1024
PCT	1.6	4.2	16.3	40.7	43.0	100.0

MARCH

PERIOD: (PRIMARY) 1954-1970
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AREA 0000 YAKU SHIMA
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TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP												TOTAL
TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	PCT			OBS
75/79	.0	.0	.0	.1	.2	.1	.2	.2	10	1.1		10
70/74	.0	.0	.0	.0	1.0	1.4	4.1	2.5	79	9.0		79
65/69	.0	.0	.3	2.6	3.8	4.3	7.2	5.3	206	23.6		206
60/64	.0	.1	.6	4.3	7.8	7.7	5.1	4.8	266	30.4		266
55/59	.0	.1	1.3	4.7	8.4	5.9	3.0	1.3	215	24.6		215
50/54	.0	.0	.3	2.9	2.9	1.7	1.3	1.0	88	10.1		88
45/49	.0	.0	.1	1.1	2.3	1.3	.2	.0	10	1.1		10
TOTAL	.0	.2	2.7	14.9	24.3	21.6	18.5	13.2	874	100.0		874
PCT	.0	.2	2.7	14.9	24.3	21.6	18.5	13.2				

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP											
	N	NE	E	SE	S	SW	W	NW	VAR	CALM	
75/79	.0	.3	.1	.0	.6	.2	.1	.1	.0	.0	
70/74	.4	.3	.2	.8	2.4	2.9	1.5	.5	.0	.0	
65/69	3.1	1.7	2.6	3.3	4.7	2.1	3.6	2.4	.0	.0	
60/64	7.3	3.2	3.7	3.0	1.3	1.7	2.5	4.8	.0	.1	
55/59	8.1	4.5	1.4	.3	.2	.2	2.1	7.4	.0	.3	
50/54	4.0	.6	.1	.0	.0	.1	.6	4.6	.0	.0	
45/49	.5	.1	.0	.0	.0	.0	.1	.4	.0	.0	
TOTAL	23.5	12.4	8.1	7.4	9.2	7.3	10.6	20.3	.0	1.4	

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR											
HOUR (GMT)	MAX	99%	95%	50%	5%	1%	1" IN	MEAN	TOTAL	OBS	
0000	77	73	71	61	51	46	39	61.2	880		
0600	78	75	72	61	50	46	43	61.1	767		
1200	75	71	69	60	49	45	39	59.5	947		
1800	76	71	68	59	48	45	39	58.9	832		
TOT	78	73	70	61	50	45	39	60.2	3426		

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR											
HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL	OBS
0000	.0	16.5	25.2	20.7	21.5	16.1	73	242			
0600	.0	18.8	27.1	20.6	20.2	13.3	72	218			
1200	.0	20.0	17.1	26.3	23.4	13.2	74	209			
1800	.0	16.6	26.7	19.8	19.4	17.3	74	217			
TOT	0	158	213	192	186	133	73	882			

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1857-1970

MARCH

AREA 0008 YAKU SHIMA
30.0N 130.0E

TABLE 17
PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	37	41	45	49	53	57	61	65	69	73	77	TOT	H FOG	WD FOG
11/13	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	6	.0	.2
9/10	.0	.0	.0	.0	.0	.0	.1	.1	.1	.0	.0	3	.0	.1
7/8	.0	.0	.0	.0	.0	.0	.1	.1	.1	.1	.1	13	.0	.5
6	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	4	.0	.1
5	.0	.0	.0	.0	.0	.0	.1	.1	.1	.1	.1	25	.0	.9
4	.0	.0	.0	.0	.0	.0	.1	.1	.1	.1	.1	44	.0	1.6
3	.0	.0	.0	.0	.0	.0	.1	.1	.1	.1	.1	11	.0	.4
2	.0	.0	.0	.0	.0	.0	.1	.1	.1	.1	.1	59	.0	2.5
1	.0	.0	.0	.0	.0	.0	.1	.1	.1	.1	.1	28	.1	1.0
-1	.0	.0	.0	.0	.0	.0	.1	.1	.1	.1	.1	186	.1	6.7
-2	.0	.0	.0	.0	.0	.0	.1	.1	.1	.1	.1	34	.0	2.0
-3	.0	.0	.0	.0	.0	.0	.1	.1	.1	.1	.1	249	.1	8.9
-4	.0	.0	.0	.0	.0	.0	.1	.1	.1	.1	.1	45	.0	1.6
-5	.0	.0	.0	.0	.0	.0	.1	.1	.1	.1	.1	310	.1	11.1
-6	.0	.0	.0	.0	.0	.0	.1	.1	.1	.1	.1	306	.1	11.0
-7/-8	.0	.0	.0	.0	.0	.0	.1	.1	.1	.1	.1	82	.0	3.0
-9/-10	.0	.0	.0	.0	.0	.0	.1	.1	.1	.1	.1	345	.0	12.4
-11/-13	.0	.0	.0	.0	.0	.0	.1	.1	.1	.1	.1	305	.0	11.0
-14/-16	.0	.0	.0	.0	.0	.0	.1	.1	.1	.1	.1	413	.0	14.9
-17/-19	.0	.0	.0	.0	.0	.0	.1	.1	.1	.1	.1	187	.0	6.8
-20/-22	.0	.0	.0	.0	.0	.0	.1	.1	.1	.1	.1	45	.0	1.6
-23/-25	.0	.0	.0	.0	.0	.0	.1	.1	.1	.1	.1	33	.0	1.2
TOTAL	3	7	100	204	469	525	793	412	213	36	4	2766	16	2750
PCT	.1	.3	3.6	7.4	17.0	19.0	28.7	14.9	7.7	1.3	.1	100.0	.6	99.4

PERIOD: (OVER-ALL) 1963-1970 MARCH AREA 0008 YAKU SHIMA
30.0N 130.0E

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.3	.0	.0	.0	.0	.5	.1	.5	.0	.0	.0	.0	.5
1-2	.2	3.6	3.4	.0	.0	.0	7.2	.4	2.6	1.2	.0	.0	.0	4.3
3-4	.0	3.7	4.9	.8	.0	.0	9.4	.0	1.0	2.3	.3	.0	.0	3.3
5-6	.0	.2	3.1	1.2	.0	.0	4.5	.0	1.4	1.8	.5	.0	.0	1.3
7	.0	.0	1.2	.7	.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	1.2	.2	.0	1.3	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	7.8	12.6	4.6	.2	.0	25.6	.5	4.6	5.9	1.3	.0	.0	12.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.2	.0	.0	.0	.0	.5	.0	.5	.0	.0	.0	.0	.5
1-2	.0	.5	.5	.0	.0	.0	1.0	.2	1.1	.6	.0	.0	.0	1.9
3-4	.0	1.0	1.2	1.0	.0	.0	3.1	.0	.4	1.4	.1	.0	.0	2.0
5-6	.2	.2	1.0	.4	.0	.0	1.8	.0	.2	.4	.2	.0	.0	.8
7	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.2	.0	.2	.0	.0	.2	.0	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	1.9	2.9	1.3	.2	.0	6.9	.2	2.3	3.2	.6	.0	.0	6.3

PERIOD: (OVER-ALL) 1963-1970

MARCH

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

AREA 0008 YAKU SHIMA
30.0N 130.0E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2	.2	.4	.0	.0	.0	.0	.6
1-2	.2	.8	.7	.0	.0	.0	1.7	.0	1.3	1.0	.0	.0	.0	2.3
3-4	.0	1.1	3.0	.5	.0	.0	4.5	.0	.5	1.9	.5	.0	.0	2.9
5-6	.0	.0	1.2	.3	.2	.0	1.7	.0	.2	.7	.3	.0	.0	1.2
7	.0	.0	.6	.4	.0	.0	1.0	.0	.0	.5	.7	.0	.0	.5
8-9	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.0	5.5	1.4	.2	.0	9.4	.2	2.4	4.1	2.0	.0	.0	8.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.3	.0	.0	.0	.7	.0	.3	.1	.0	.0	.0	.4
1-2	.2	1.3	.6	.0	.0	.0	2.1	.0	1.6	1.7	.0	.0	.0	3.3
3-4	.0	.6	1.6	.4	.0	.0	2.6	.0	1.1	3.4	1.0	.0	.0	5.4
5-6	.0	.0	.5	.3	.0	.0	.8	.2	.4	2.9	1.2	.2	.0	5.0
7	.0	.0	.7	1.1	.4	.0	2.2	.0	.0	1.4	1.8	.0	.0	2.2
8-9	.0	.0	.0	.6	.0	.0	.6	.0	.0	.2	1.5	.0	.0	1.7
10-11	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.3	.0	.0	.4
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.7
13-16	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.2	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.3	3.8	3.6	.4	.0	10.4	.2	3.3	9.8	5.7	.7	.0	19.7

PERIOD: (OVER-ALL) 1963-1970

MARCH

AREA 0008 YAKU SHIMA
30.0N 130.0E

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)							TOT OBS
	0-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	2.3	2.7	.4	.0	.0	.0	5.5	
1-2	1.3	12.8	9.7	.0	.0	.0	23.7	
3-4	.0	9.2	15.5	4.4	.0	.0	33.2	
5-6	.4	1.7	11.6	4.2	.4	.0	18.3	
7	.0	.0	5.9	4.4	.4	.0	10.7	
8-9	.0	.0	.2	3.4	.0	.0	3.6	
10-11	.0	.0	.2	1.9	.2	.0	2.3	
12	.0	.0	.0	1.3	.4	.0	1.7	
13-16	.0	.0	.0	.6	.0	.0	.6	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.2	.0	.0	.2	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.2	.0	.2	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.0	26.5	47.5	20.4	1.7	.0	100.0	
							476	

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-80	87+	TOTAL	MEAN HGT
<6	1.0	11.0	16.2	8.6	3.2	1.6	.9	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	350	4
6-7	.0	1.8	8.7	10.2	5.5	4.3	.7	1.6	.6	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	275	6
8-9	.0	.0	1.2	2.6	2.7	2.1	1.0	.7	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	86	7
10-11	.0	.5	.4	.1	.9	.5	.4	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	28	8
12-13	.0	.0	.4	.2	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	7	8
>13	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
INDET	2.6	1.5	2.1	1.6	.4	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	69	3
TOTAL	29	121	236	191	103	71	25	25	8	2	3	1	1	1	0	0	0	0	0	816	5
PCT	3.6	14.8	28.9	23.4	12.6	8.7	3.1	3.1	1.0	.2	.4	.1	.1	.1	.0	.0	.0	.0	.0	100.0	

APRIL

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1862-1970

AREA 0008 YAKU SHIMA
29.6N 129.9E

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT OB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				FRZG	SNOW	OTHER PCPN					FGG	SHRKE	DUST	BLWG	SNOW	
N	.9	.1	.3	.0	.0	.0	.0	1.4		.0	.2	.1	.0	.0	.0	13.7
NE	1.4	.1	.4	.0	.0	.0	.0	1.9		.0	.1	.2	.0	.0	.0	10.0
E	2.4	.2	.7	.0	.0	.0	.0	3.2		.0	.3	.0	.0	.0	.0	10.3
SE	1.7	.3	.6	.1	.0	.0	.0	2.6		.0	.1	.1	.0	.0	.0	12.1
S	1.7	.2	.4	.0	.0	.0	.0	2.3		.0	.3	.2	.0	.0	.0	9.4
SW	1.0	.1	.4	.0	.0	.0	.0	1.5		.0	.3	.0	.0	.0	.0	5.7
W	.5	.1	.1	.0	.0	.0	.0	.7		.0	.1	.0	.0	.0	.0	5.3
NW	.5	.1	.2	.0	.0	.0	.0	.8		.0	.1	.1	.0	.0	.0	14.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.1	.0	.0	.0	.0	.1		.0	.1	.1	.0	.0	.0	1.1
TOT OBS	281	36	87	.4	.0	.0	.0	.1	405	.2	.45	.25	.2	.0	.2	2285
TOT PCT	10.2	1.3	3.1	.1	.0	.0	.0	14.7		.1	1.6	.9	.1	.0	.1	82.7

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT OB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				FRZG	SNOW	OTHER PCPN					FGG	SHRKE	DUST	BLWG	SNOW	
00003	9.1	1.7	1.9	.0	.0	.0	.0	12.5		.2	1.7	1.2	.0	.2	.0	84.2
00009	11.7	.6	3.1	.3	.0	.0	.0	15.4		.0	1.5	.4	.0	.0	.0	82.7
12015	8.5	1.7	3.8	.3	.0	.0	.1	14.2		.3	1.6	1.3	.0	.0	.0	82.7
18021	11.1	1.2	3.6	.0	.0	.0	.0	15.9		.0	1.7	.7	.1	.1	.0	81.5
TOT	281	36	87	.4	.0	.0	.0	.1	405	.3	.45	.26	.2	.2	.2	2310
PCT	10.1	1.3	3.1	.1	.0	.0	.0	14.5		.1	1.6	.9	.1	.1	.1	82.8

APRIL

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1862-1970

APEA 0008 YAKU SHIMA
29.9N 129.9E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.6	5.6	6.5	2.4	.2	.0	.0	15.2	13.8	15.5	15.2	14.2	13.9	13.4	17.9	14.0	15.7
NE	.6	4.9	5.4	1.6	.2	.0	.0	12.6	13.3	15.9	14.1	16.6	13.0	14.1	8.6	10.9	11.0
E	.6	4.7	5.2	2.8	.3	.0	.0	13.6	14.7	11.0	15.6	13.3	14.6	12.2	14.1	12.4	13.8
SE	.6	5.2	7.0	2.0	.3	.0	.0	15.0	13.8	12.8	12.3	14.2	16.8	18.1	15.9	16.6	14.0
S	.6	4.1	5.7	1.3	.2	.0	.0	11.9	13.3	13.4	9.8	13.6	9.4	13.0	11.9	15.2	11.2
SW	.4	2.7	3.6	1.9	.1	.0	.0	7.6	13.1	9.0	6.8	5.9	6.1	7.1	8.0	9.8	8.6
W	.2	2.4	2.7	1.1	.1	.0	.0	6.4	14.0	4.9	8.5	7.0	8.6	5.0	4.6	5.2	7.1
NW	.4	4.5	7.4	3.4	.3	.0	.0	16.1	15.7	16.1	16.6	13.0	16.1	14.6	18.2	13.1	17.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.6	112	1423	504	50	0	3271	1.6	.0	1.5	1.0	2.2	1.6	2.5	1.0	2.9	.8
TOT OBS	182	43.5	15.4	1.5	.0	.0	.0	100.0	13.9	331	482	323	431	224	599	310	471
TOT PCT	5.6	34.0	43.5	15.4	1.5	.0	.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-6	7-16	17-27	28-40	41+				00	03	06	09	12	15	18	21
N	2.8	7.0	4.5	.9	.0	.0	15.2	13.8	15.3	14.0	16.3	15.0	15.0	15.0	15.0	15.0
NE	2.3	6.3	3.4	.6	.0	.0	12.6	13.3	14.9	14.5	10.5	10.9	10.9	10.9	10.9	10.9
E	2.5	5.7	4.2	1.2	*	*	13.6	14.7	13.7	14.0	13.4	13.4	13.3	13.3	13.3	13.3
SE	2.4	7.6	4.2	.8	*	*	15.0	13.8	12.5	15.7	16.6	15.0	15.0	15.0	15.0	15.0
S	2.2	6.2	2.9	.5	*	*	11.9	13.3	11.2	11.2	12.3	12.8	12.8	12.8	12.8	12.8
SW	1.5	3.6	2.4	.1	*	*	7.6	13.1	7.7	6.0	7.7	9.1	9.1	9.1	9.1	9.1
W	.9	3.2	2.0	.4	.0	.0	6.4	14.0	7.0	7.9	4.7	6.3	6.3	6.3	6.3	6.3
NW	1.9	6.9	5.9	1.4	*	*	16.1	15.7	16.4	14.8	16.9	15.9	15.9	15.9	15.9	15.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.6	1521	963	193	4	3271	1.6	.0	1.2	1.9	1.5	1.7	1.7	1.7	1.7	1.7
TOT OBS	590	46.5	29.4	5.9	.1	.0	100.0	13.9	813	754	923	781	781	781	781	781
TOT PCT	18.0	46.5	29.4	5.9	.1	.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

APRIL

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1862-1970

AREA 0008 YAKU SHIMA
29.9N 129.9E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0203	1.2	3.9	32.7	42.8	17.7	1.6	.0	14.2	100.0	813
0609	1.9	4.2	32.4	43.6	16.3	1.6	.0	14.1	100.0	754
2615	1.5	4.4	33.0	44.2	14.8	2.0	.0	13.9	100.0	923
8621	1.7	3.3	38.0	43.3	12.8	.9	.0	13.2	100.0	781
TOT	51	131	1112	1423	504	50	0	13.9		3271
PCT	1.6	4.0	34.0	43.5	15.4	1.5	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 &	OBS	TOTAL OBS	MEAN CLOUD COVER
N	4.1	2.1	3.4	4.4			4.8
NE	2.6	1.4	3.6	4.8			5.5
E	2.5	1.2	2.4	6.3			5.8
SE	3.3	2.0	3.8	5.7			5.4
S	2.4	1.7	4.2	7.8			6.0
SW	1.7	1.2	2.2	4.2			5.8
W	1.6	1.1	2.2	3.4			5.0
NW	4.0	2.3	3.7	3.4			4.7
VAR	.0	.0	.0	.0			.0
CALM	.6	.3	.6	.8			4.6
TOT OBS	240	135	265	417		1057	5.4
TOT PCT	22.7	12.8	25.1	39.5		100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (if 'NH > 4/8)
AND OCCURRENCE OF NH < 5/8 BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 &	OBS	TOTAL OBS	MEAN CLOUD COVER	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (if 'NH > 4/8) AND OCCURRENCE OF NH < 5/8 BY WIND DIRECTION									
								000	150	300	600	1000	2000	3500	5000	6500	8000+
N	4.1	2.1	3.4	4.4			4.8	.1	.0	.2	1.1	2.9	1.6	.1	.1	.0	.2
NE	2.6	1.4	3.6	4.8			5.5	.0	.0	.6	1.0	2.8	1.4	.4	.1	.0	.1
E	2.5	1.2	2.4	6.3			5.8	.0	.1	.5	1.7	2.1	1.7	.2	.1	.0	.2
SE	3.3	2.0	3.8	5.7			5.4	.0	.1	.2	1.5	2.9	1.7	.4	.2	.1	.1
S	2.4	1.7	4.2	7.8			6.0	.4	.2	.7	1.8	4.2	1.5	.6	.0	.0	.0
SW	1.7	1.2	2.2	4.2			5.8	.1	.1	.5	1.0	2.2	1.1	.2	.0	.0	.0
W	1.6	1.1	2.2	3.4			5.0	.1	.0	.0	.7	1.0	.6	.3	.0	.0	.0
NW	4.0	2.3	3.7	3.4			4.7	.4	.0	.2	.8	2.2	2.0	.4	.0	.0	.0
VAR	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.6	.3	.6	.8			4.6	.0	.0	.0	.5	.3	.2	.0	.1	.0	.1
TOT OBS	240	135	265	417		1057	5.4	.7	.5	2.9	10.1	20.6	11.8	2.6	.6	.1	.7
TOT PCT	22.7	12.8	25.1	39.5		100.0											

PERIOD: (PRIMARY) 1534-1970
(OVER-ALL) 1862-1970

APRIL

AREA 0008 YAKU SHIMA
29.9N 129.9E

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	VSBY (NH) = OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.5	.7	.8	.8	.8	.8	.8	.8
= OR >5000	.8	1.1	1.2	1.3	1.3	1.3	1.3	1.3
= OR >3500	2.3	3.7	3.9	4.0	4.0	4.0	4.0	4.0
= OR >2000	10.0	14.7	15.7	15.8	15.8	15.8	15.8	15.8
= OR >1000	21.0	31.7	35.5	36.0	36.0	36.0	36.1	36.1
= OR >600	26.3	39.5	45.0	45.8	46.0	46.1	46.2	46.2
= OR >300	27.0	41.0	47.8	48.7	48.9	49.0	49.2	49.2
= OR >150	27.0	41.3	48.3	49.2	49.3	49.4	49.6	49.6
= OR > 0	27.2	41.5	48.6	49.6	49.8	49.9	50.3	50.3
TOTAL	288	440	515	526	528	529	533	533

TOTAL NUMBER OF OBS: 1060

PCT FREQ NH <5/8: 49.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
10.3	10.0	13.0	8.3	6.8	7.4	8.9	9.7	24.2	1.4	1102	

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1862-1970

APRIL

AREA 0000 YAKU SHIMA
29.0N 129.0E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	.1	.1	.1	.1	.1	.1	.1	.0	.0	.0	.5	
NO PCP	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.2	
TOT %	.1	.1	.1	.1	.1	.2	.2	.0	.0	.0	.7	
PCP	.1	.3	.1	.1	.1	.1	.1	.1	.0	.0	.7	
NO PCP	.2	.1	.1	.1	.1	.1	.1	.0	.0	.0	.5	
TOT %	.3	.4	.2	.2	.2	.2	.2	.1	.0	.0	1.2	
PCP	.2	.2	.1	.1	.2	.1	.1	.0	.0	.0	.8	
NO PCP	.2	.2	.1	.1	.2	.1	.1	.0	.0	.0	.8	
TOT %	.4	.4	.2	.2	.4	.2	.2	.0	.0	.0	1.6	
PCP	.3	.8	.9	.9	.8	.6	.2	.3	.0	.0	4.7	
NO PCP	.1	.2	.2	.3	.6	.2	.1	.3	.0	.1	2.1	
TOT %	.5	1.0	1.1	1.2	1.4	.8	.3	.6	.0	.1	6.8	
PCP	.6	.7	1.2	1.0	.7	.4	.3	.3	.0	.0	5.3	
NO PCP	3.7	2.5	2.9	3.1	2.4	1.9	1.7	4.3	.0	.2	22.8	
TOT %	4.3	3.3	4.0	4.1	3.2	2.3	2.0	4.6	.0	.2	28.1	
PCP	.2	.3	.4	.4	.3	.2	.1	.1	.0	.0	1.7	
NO PCP	9.9	7.3	7.6	8.9	6.7	3.8	3.6	10.6	.0	.9	59.0	
TOT %	10.1	7.6	8.0	9.3	7.0	4.0	3.7	10.7	.0	1.0	60.7	
TOT OBS	15.5	12.2	13.8	15.0	12.2	7.6	6.3	16.0	.0	1.4	100.0	2763

PERIOD: (PRIMARY) 1936-1970
(OVER-ALL) 1862-1970

APRIL

AREA 0000 YAKU SHIMA
29.0N 129.9E

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	4-10	.1	.1	.1	.1	.1	.1	.1	.1	.0	.0	.4	.4
	11-21	.0	.1	.1	.1	.1	.1	.1	.1	.0	.0	.3	.3
	22+	.0	.1	.1	.1	.1	.1	.1	.1	.0	.0	.1	.1
	TOT %	.1	.2	.2	.1	.1	.2	.2	.2	.0	.0	1.1	1.1
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.1	.1	.1	.1	.1	.1	.1	.1	.0	.0	.4	.4
	11-21	.1	.1	.1	.1	.1	.1	.1	.1	.0	.0	.3	.3
	22+	.0	.1	.1	.1	.1	.1	.1	.1	.0	.0	.3	.3
	TOT %	.3	.2	.3	.1	.1	.1	.1	.1	.0	.0	1.3	1.3
1<2	0-3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.2
	4-10	.1	.1	.2	.2	.2	.2	.1	.2	.0	.0	.6	.6
	11-21	.2	.1	.2	.3	.3	.2	.1	.2	.0	.0	1.7	1.7
	22+	.1	.3	.4	.2	.2	.1	.1	.1	.0	.0	1.3	1.3
	TOT %	.4	.5	.7	.5	.7	.4	.2	.3	.0	.1	3.7	3.7
2<5	0-3	.1	.1	.3	.0	.3	.1	.0	.1	.0	.2	.4	.4
	4-10	.4	.4	.6	.6	1.0	.3	.1	.2	.0	.0	2.2	2.2
	11-21	.1	.3	.7	.5	.5	.4	.2	.6	.0	.0	4.3	4.3
	22+	.1	.3	.7	.5	.5	.4	.2	.6	.0	.0	2.8	2.8
	TOT %	1.0	1.5	1.6	1.5	1.6	.9	.6	1.1	.0	.2	5.9	5.9
5<10	0-3	.1	.1	.2	.2	.1	.1	.1	.1	.0	.3	1.1	1.1
	4-10	1.2	1.3	1.1	1.0	.9	.6	.7	.8	.0	.0	7.6	7.6
	11-21	1.6	1.4	1.4	2.1	1.3	1.2	.8	2.1	.0	.0	11.9	11.9
	22+	1.1	.4	1.1	.8	.7	.3	.4	1.4	.0	.0	6.0	6.0
	TOT %	3.9	3.1	3.7	4.1	3.0	2.3	1.9	4.3	.0	.3	26.6	26.6
10+	0-3	.3	.5	.4	.3	.5	.2	.1	.3	.0	1.0	3.7	3.7
	4-10	3.8	3.1	3.2	3.6	2.8	1.7	1.5	3.3	.0	.0	23.0	23.0
	11-21	4.3	3.0	2.9	4.1	2.8	1.6	1.4	4.7	.0	.0	24.8	24.8
	22+	1.2	.5	.6	.7	.4	.2	.5	1.9	.0	.0	6.0	6.0
	TOT %	9.6	7.0	7.2	8.7	6.5	3.7	3.5	10.2	.0	1.0	57.5	57.5
TOT OBS		3054											
TOT PCT		15.2	12.5	13.7	15.1	11.9	7.6	6.4	16.1	.0	1.6	100.0	

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1862-1970

APRIL

AREA 0008 VAKU SHIMA
29.9N 129.9E

TABLE 10
PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GHT)	000	150	300	600	1000	2000	3000	5000	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL
00003	1.0	.3	4.2	6.3	23.3	13.2	1.7	.7	.0	.3	51.0	49.0
06009	.4	1.1	1.8	13.1	17.1	12.0	3.6	.0	.4	.0	49.5	50.5
12015	.6	.4	2.4	10.2	21.2	12.2	2.7	.4	.0	1.2	51.4	48.6
18021	.4	.0	3.1	11.0	20.4	9.4	2.4	1.2	.0	1.2	49.0	51.0
TOT	7	5	31	108	220	126	28	6	1	7	539	534
PCT	.7	.5	2.9	10.1	20.5	11.7	2.6	.6	.1	.7	50.2	49.8

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GHT)	< 1/2	1/2 < 1	1 < 2	2 < 5	5 < 10	10+	TOTAL OBS
00003	.7	.0	1.1	9.5	22.5	66.3	285
06009	.7	.7	.4	7.7	17.9	72.6	274
12015	1.2	.0	2.3	8.2	24.1	64.2	257
18021	.4	.0	1.2	6.3	33.7	58.3	252
TOT	8	2	13	85	260	700	1068
PCT	.7	.2	1.2	8.0	24.3	65.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH > 4/8) BY HOUR

HOUR (GHT)	< 150 < 5070	< 600 < 1	< 1000 < 5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	1.4	6.3	19.3	32.6	48.1	285
06009	1.6	5.1	19.7	29.9	50.4	274
12015	3.1	5.8	21.8	31.1	47.1	257
18021	.8	4.4	19.0	32.1	48.8	252
TOT	19	58	213	326	519	1068
PCT	1.8	5.4	19.9	31.5	48.6	100.0

APRIL

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1962-1970

AREA 0008 YAKU SHIMA
.29.0N 129.0E

TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100				
80/84	.0	.0	.0	.0	.1	.2	.2	.0			6	.6
75/79	.0	.0	.0	.3	.6	1.6	4.0	2.5			97	9.2
70/74	.1	.0	.0	1.2	3.8	5.8	9.3	12.2			310	32.7
65/69	.0	.1	.0	2.5	5.5	8.4	8.3	5.3			294	31.0
60/64	.0	.0	1.1	2.7	5.8	4.1	3.7	2.7			192	20.3
55/59	.0	.0	.2	.9	2.2	1.7	.6	.2			56	5.9
50/54	.0	.0	.0	.0	.2	.0	.0	.1			3	.3
TOTAL	1	2	23	79	169	207	248	219			948	100.0
PCT	.1	.2	2.4	8.3	17.8	21.8	26.2	23.1				

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP											VAR	CALM
N	NE	E	SE	S	SW	W	NW					
.2	.1	.0	.0	.1	.1	.0	.0				.0	.1
.3	.2	.1	1.3	4.4	2.3	.3	.1				.0	.1
2.4	3.0	3.8	6.7	7.5	4.4	2.1	1.9				.0	.8
4.5	4.2	5.7	8.6	3.3	1.4	1.7	3.8				.0	.8
4.9	2.8	2.4	1.2	.5	.7	1.4	3.7				.0	.2
2.4	1.2	.2	.1	.1	.1	.3	1.3				.0	.2
.1	.1	.0	.1	.0	.0	.0	.0				.0	.0
14.7	11.6	12.2	18.2	4.1	9.1	5.8	12.8				.0	2.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR										TOTAL OBS
HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN		
00003	84	77	75	67	57	54	50	67.0		802
06009	84	79	75	68	57	52	52	67.3		721
12015	81	76	73	66	56	52	50	65.4		923
18021	79	77	73	66	55	52	48	65.4		782
TOT	84	77	75	66	57	52	48	66.2		3238

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR										TOTAL OBS
HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	
00003	.4	10.0	16.4	22.0	27.2	24.0	24.0	78		230
06009	.0	12.9	21.9	23.8	22.3	17.2	23.3	78		233
12015	.0	12.7	16.9	18.6	27.8	24.1	24.1	77		237
18021	.0	8.0	16.4	21.8	26.9	20.9	20.9	79		238
TOT	1	104	171	211	230	221	221	77		938

AREA 0008 YAKU SHIMA
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六三

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

[illegible]

PERIOD: (OVER-ALL) 1963-1970 APRIL AREA 0008 YAKU SHIMA
29.0N 129.0E

TABLE 10

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.0	.0	.0	.0	.5	.1	.5	.2	.0	.0	.0	.0
1-2	.0	2.3	1.1	.3	.0	.0	3.5	.2	1.1	2.1	.0	.0	.0	3.4
3-4	.0	1.7	2.4	.3	.0	.0	4.3	.0	1.9	3.3	.0	.0	.0	3.2
5-6	.0	.0	1.1	.0	.0	.0	1.8	.0	.0	.0	.0	.0	.0	1.1
7	.0	.0	1.0	.6	.0	.0	1.7	.0	.0	.7	.2	.0	.0	1.0
8-9	.0	.0	1.3	.3	.0	.0	1.0	.0	.0	.1	.2	.0	.0	.4
10-11	.0	.0	.2	.1	.0	.0	.3	.0	.0	.4	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.9	6.4	2.2	.0	.0	13.4	.3	3.6	7.7	1.0	.0	.0	12.6

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.0	.0	.0	.0	.5	.1	.5	.0	.0	.0	.0	.0
1-2	.1	3.0	1.3	.6	.0	.0	4.9	.0	1.3	1.0	.0	.0	.0	1.0
3-4	.1	1.9	1.9	.3	.0	.0	3.3	.0	2.1	2.1	.4	.0	.0	2.4
5-6	.0	.0	1.7	.3	.0	.0	2.7	.0	1.4	1.8	.2	.0	.0	2.4
7	.0	.0	.8	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	1.0
8-9	.0	.0	1.1	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0
10-11	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.9	5.1	1.7	.4	.0	14.0	.9	4.9	6.0	1.3	.4	.0	13.6

PERIOD: (OVER-ALL) 1963-1970 APRIL AREA 0008 YAKU SHIMA
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TABLE 18
PCT PRSQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (MT)

	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
HGT														
<1	.0	1.3	1.6	.0	.0	.0	2.1	.2	1.1	.0	.0	.0	.0	1.3
1-2	.0	2.2	1.3	.0	.0	.0	3.5	.0	.9	2.1	.0	.0	.0	1.0
3-4	.0	1.6	5.0	.9	.0	.0	7.4	.0	.8	2.3	.3	.0	.0	3.0
5-6	.0	.4	1.6	.7	.0	.0	2.6	.0	.4	1.0	.4	.0	.0	3.4
7	.0	.0	.3	.3	.0	.0	.9	.0	.2	.4	.2	.0	.0	1.3
8-9	.0	.0	2	.3	.0	.0	.3	.0	.0	.1	.2	.0	.0	.4
10-11	.0	.0	.2	.3	.0	.0	.3	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	5.5	8.4	2.7	.3	.0	17.7	.2	3.0	6.1	1.3	.2	.0	10.9

	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
HGT														
<1	.0	1.1	.0	.0	.0	.0	1.7	.2	1.7	.0	.0	.0	.0	1.4
1-2	.0	1.3	.7	.0	.0	.0	1.9	.2	.9	1.3	.0	.0	.0	3.0
3-4	.0	.0	1.1	.2	.0	.0	1.8	.0	.4	1.4	.4	.0	.0	2.0
5-6	.0	.1	.3	.2	.0	.0	.6	.0	.1	1.1	.4	.0	.0	1.3
7	.0	.0	.3	.1	.0	.0	.4	.0	.0	.9	1.0	.0	.0	1.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.7	2.6	.5	.0	.0	9.0	.4	2.2	4.3	2.6	.2	.0	12.0

PERIOD: (OVER-ALL) 1963-1970

APRIL

AREA 0000 YAKU SHIMA
29.0N 129.0E

TABLE 18 (CONT)

WIND SPEED (KTS) VS SEA HEIGHT (FT)										TOT OBS
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT			331
<1	4.3	5.3	2	.0	.0	.0	9.8			
1-2	.6	13.6	10.9	.0	.0	.0	23.0			
3-4	.4	10.7	18.3	3.4	.0	.0	23.0			
5-6	.0	1.7	9.6	3.0	.0	.0	14.3			
7	.0	.4	6.2	2.3	.0	.0	9.0			
8-9	.0	.0	1.7	2.6	.0	.0	5.1			
10-11	.0	.0	.9	.4	.0	.0	1.9			
12	.0	.0	.0	.4	.0	.0	.6			
13-16	.0	.0	.2	.4	.0	.0	.8			
17-19	.0	.0	.0	.2	.0	.0	.6			
20-22	.0	.0	.0	.0	.0	.0	.0			
23-25	.0	.0	.0	.0	.0	.0	.0			
26-32	.0	.0	.0	.0	.0	.0	.0			
33-40	.0	.0	.0	.0	.0	.0	.0			
41-48	.0	.0	.0	.0	.0	.0	.0			
49-60	.0	.0	.0	.0	.0	.0	.0			
61-70	.0	.0	.0	.0	.0	.0	.0			
71-86	.0	.0	.0	.0	.0	.0	.0			
87+	.0	.0	.0	.0	.0	.0	.0			
TOT PCT	5.3	31.6	48.2	13.4	1.5	.0	100.0			

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERIOD (SEC)	PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)																
	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	
<6	2.0	11.2	17.4	6.3	3.2	1.0	.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	
6-7	.0	1.9	8.9	10.0	4.4	2.5	.7	.1	.2	.1	.0	.0	.0	.0	.0	.0	
8-9	.0	.6	1.3	3.1	4.4	3.2	1.0	.6	.2	.2	.0	.0	.0	.0	.0	.0	
10-11	.0	.2	.5	.7	.5	1.2	.6	.2	.7	.1	.0	.0	.0	.0	.0	.0	
12-13	.0	.0	.1	.2	.0	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
INDET	2.9	1.7	.9	1.5	.6	.0	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	
TOTAL	4.1	13.1	25.3	18.4	11.0	6.8	2.8	1.0	1.2	.4	.0	.0	.0	.0	.0	.0	
PCT	4.9	15.6	30.1	21.9	13.1	8.1	3.3	1.2	1.4	.5	.0	.0	.0	.0	.0	.0	

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1861-1970

MAY

AREA 0008 WAKU SHIMAZU
29.5N 130.0E

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN SHR	RAIN SHR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT 06 TIME	TOTAL PCPN OBS	THOR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				FRZG PCPN	SNOW PCPN	OTHER PCPN					FOG	SHR	DUST	BLWG	SNOW	
N	.6	.2	.2	.0	.0	.0	.0	1.0		.0	.3	.1	.0	.0	.0	10.4
NE	1.3	.2	.4	.0	.0	.0	.0	1.8		.0	.1	.1	.0	.0	.0	9.6
E	2.1	.3	.7	.0	.0	.0	.0	3.1		.0	.1	.1	.0	.0	.0	13.7
SE	2.0	.4	.6	.0	.0	.0	.0	3.0		.1	.1	.0	.0	.0	.0	11.8
S	1.7	.2	.3	.0	.0	.0	.0	2.1		.1	.2	.0	.0	.0	.0	8.1
SW	1.3	.0	.3	.0	.0	.0	.0	1.6		.1	.2	.0	.0	.0	.0	6.4
W	.9	.1	.3	.0	.0	.0	.0	1.2		.1	.0	.1	.0	.0	.0	7.3
NW	.6	.1	.1	.1	.0	.0	.0	.8		.0	.3	.2	.0	.0	.0	11.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	1.7
CALH	.0	.0	.0	.0	.0	.0	.0	.1		.0	.1	.0	.0	.0	.0	2.48
TOT OBS	281	39	78	3	0	0	0	14.7	398	.7	.37	.20	.0	.0	.0	2710
TOT PCT	10.4	1.4	2.9	.1	.0	.0	.0			.3	1.4	.7	.0	.0	.0	83.0

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT 06 TIME	TOTAL PCPN OBS	THOR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				FRZG PCPN	SNOW PCPN	OTHER PCPN					FOG	SHR	DUST	BLWG	SNOW	
0000	10.8	1.5	3.7	.2	.0	.0	.0	16.2		.0	1.4	1.2	.0	.0	.0	81.1
0600	10.3	1.3	2.8	.0	.0	.0	.0	14.4		.0	1.0	.7	.0	.0	.0	83.9
1200	10.2	1.2	3.1	.3	.0	.0	.0	14.4		.4	1.5	.7	.0	.0	.0	83.0
1800	10.1	1.8	1.8	.0	.0	.0	.0	13.7	401	.6	2.0	.3	.0	.0	.0	83.3
TOT	283	40	78	3	0	0	0			.7	.40	.20	.0	.0	.0	2269
PCT	10.3	1.5	2.8	.1	.0	.0	.0	14.7		.3	1.5	.7	.0	.0	.0	82.9

MAY

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1861-1970

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	00	03	06	09	12					15	18	21					
N	.7	5.4	5.2	1.0	*	.0	12.3	11.9	14.1	11.5	9.0	13.9	9.0	12.4	9.9	16.5						
NE	.9	5.0	4.5	1.0	.2	.0	11.8	12.2	11.8	14.3	13.6	11.4	11.5	9.9	10.0	11.7						
E	.7	6.0	8.7	2.8	.1	.0	18.3	13.9	24.9	14.8	23.8	16.3	21.1	16.8	18.1	15.2						
SE	.7	5.6	7.0	1.9	.1	.0	15.2	13.3	11.7	16.1	13.7	17.7	14.8	17.1	17.3	12.1						
S	.6	4.5	3.9	1.2	*	.0	10.2	12.1	8.0	9.9	8.5	9.8	8.6	11.5	12.2	12.1						
SW	.5	3.2	3.7	.8	.1	.0	8.2	12.3	9.5	8.6	9.3	7.3	7.0	7.9	8.4	7.5						
W	.4	3.8	3.0	.9	.1	.0	8.3	12.5	7.7	8.5	9.8	7.4	9.0	8.6	9.6	6.7						
NW	.6	6.6	5.5	1.1	*	.0	13.4	11.5	10.0	15.8	10.3	13.7	15.6	13.0	10.5	16.1						
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0						
CALM	2.2	1271	1317	349	22	0	3171	100.0	2.2	.6	2.0	2.0	2.0	3.2	2.7	3.9	2.0					
TOT OBS	235	40.1	41.5	10.3	.7	.0			320	476	343	410	310	562	307	443						
TOT PCT	7.4								100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0					

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TABLE 3A

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)											
	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21						
N	2.8	6.5	2.7	.3	.0	12.3	11.9	12.3	12.5	11.7	11.2	13.8										
NE	2.5	6.5	2.3	.5	*	11.8	12.2	11.8	12.3	12.4	10.5	11.0										
E	3.0	9.0	5.6	.8	*	18.3	13.9	18.3	18.8	19.8	18.3	16.4										
SE	2.5	7.9	4.4	.5	.0	15.2	13.3	15.2	14.4	15.9	16.3	14.3										
S	2.8	4.9	2.2	.4	.0	10.2	12.1	10.2	9.2	9.2	10.5	12.2										
SW	2.1	3.8	2.1	.2	.0	8.2	12.3	8.2	9.0	8.5	7.6	7.9										
W	2.0	4.2	1.7	.4	*	8.3	12.5	8.3	8.2	8.5	8.8	7.9										
NW	2.5	8.1	2.6	.1	.0	13.4	11.5	13.4	13.4	12.2	14.0	13.8										
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0										
CALM	2.2	1612	745	104	3	3171	100.0	2.2	1.3	2.0	2.0	2.9	2.8									
TOT OBS	707	50.8	23.5	3.3	.1				796	753	872	750										
TOT PCT	22.3								100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0						

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)				
HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)
				11-21 22-23 34-47
0000	1.3	4.6	38.6	12.4
0600	2.0	5.0	41.3	12.0
1200	2.9	6.4	42.4	12.0
1800	2.8	4.4	37.7	12.0
TOT	71	164	1271	320
PCT	2.2	5.2	40.1	10.3
				1.1 .8 .5 .4 .2 .7
				100.0 100.0 100.0 100.0 100.0
				796 793 872 730 3171

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-4	TOTAL
					OBS
N	1.7	1.1	2.5	4.4	5.8
NE	3.8	1.3	3.5	5.3	5.2
E	2.7	2.8	5.3	12.0	6.2
SE	1.1	.8	4.1	7.9	6.6
S	.9	.5	3.4	3.8	6.3
SW	.5	.8	3.5	3.7	6.4
W	1.4	1.3	3.3	5.0	6.1
NW	2.3	.9	3.2	3.2	5.2
CALM	.0	.0	.0	.0	.0
TOT OBS	150	100	295	472	1017
TOT PCT	14.7	9.8	29.0	46.4	100.0

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) BY WIND DIRECTION

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) BY WIND DIRECTION										
WIND DIR	000	150	300	600	1000	2000	3500	5000	6000+	TOTAL
										OBS
N	.0	.0	.1	.1	.2	.1	.2	.2	.1	6.7
NE	.2	.1	.4	.2	.1	.1	.2	.2	.1	7.3
E	.2	.2	.3	.2	.1	.1	.2	.2	.1	10.2
SE	.2	.4	.3	.1	.1	.1	.1	.1	.1	3.4
S	.2	.0	.3	.1	.1	.1	.1	.1	.1	3.2
SW	.0	.2	.2	.1	.1	.1	.1	.1	.1	4.1
W	.3	.0	.4	.1	.1	.1	.1	.1	.1	4.6
NW	.1	.1	.1	.1	.1	.1	.1	.1	.1	4.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1
TOT OBS	12	10	26	12	202	140	21	11	13	1017
TOT PCT	1.2	1.0	2.6	11.9	19.9	13.8	2.1	1.1	1.3	100.0

PERIOD: (PRIMARY) 1934-1970
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TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)				
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2
= OR >6500	1.6	2.1	2.2	2.2	2.2
= OR >5000	2.5	3.1	3.3	3.3	3.3
= OR >3500	4.1	5.0	5.3	5.3	5.3
= OR >2000	13.4	17.9	19.1	19.1	19.1
= OR >1000	25.4	35.6	38.3	38.6	38.8
= OR >600	30.2	44.8	49.6	50.3	50.5
= OR >300	30.9	46.2	52.1	52.9	53.1
= OR >150	31.0	46.4	52.8	53.6	53.9
= OR > 0	31.1	47.0	53.6	54.7	55.0
TOTAL	315	477	543	555	558

TOTAL NUMBER OF OBS: 1014 PCT FREQ NH <5/8: 44.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

TOTAL OBS							
0	1	2	3	4	5	6	7
9.3	8.6	12.3	8.3	5.8	7.5	8.9	8.0
							29.9
							1.4
							1087

PERIOD: (PRIMARY) 1934-1970
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

WSBY (NH)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	.0	*	.1	*	.1	.1	.1	.1	.0	.0	.5	
ND PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	
TOT %	.0	*	.1	*	.1	.1	.1	.1	.0	.0	.6	
PCP	.1	.2	.2	*	.1	.3	*	*	.0	.0	.8	
ND PCP	.1	.0	.0	.0	*	.1	.0	.2	.0	.0	.5	
TOT %	.2	.2	.2	*	.1	.4	*	.2	.0	.0	1.3	
PCP	.1	.1	.4	.4	.2	.3	*	*	.0	.0	1.7	
ND PCP	*	.1	.1	.0	.0	*	.1	.1	.0	.0	.4	
TOT %	.1	.2	.5	.4	.2	.3	.2	.1	.0	.0	2.1	
PCP	.3	.7	1.0	.9	.5	.5	.2	.2	.0	.0	4.4	
ND PCP	.1	.2	.3	.2	.2	.2	.1	.2	.0	.0	1.5	
TOT %	.5	.9	1.3	1.1	.7	.6	.4	.4	.0	.0	5.9	
PCP	.3	.4	1.0	1.2	1.0	.3	.5	.4	.0	.0	5.2	
ND PCP	3.3	2.3	3.9	3.0	2.8	2.1	2.3	3.2	.0	.3	23.2	
TOT %	3.6	2.8	4.9	4.2	3.8	2.4	2.8	3.6	.0	.3	28.4	
PCP	.2	.3	.4	.3	.2	.2	.2	.1	.0	.0	2.0	
ND PCP	7.2	7.2	11.6	8.9	5.4	4.2	5.0	8.7	.0	1.4	59.7	
TOT %	7.5	7.5	12.0	9.3	5.6	4.5	5.2	8.8	.0	1.4	61.7	
TOT OBS												2707
TOT PCT	11.9	11.6	19.0	15.1	10.5	8.3	8.6	13.2	.0	1.8	100.0	

PERIOD: (PRIMARY) 1934-1970
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TABLE 9

AREA 0008 YAKU SHIMA
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PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	11-21	.1	.1	.1	.1	.1	.1	.1	.1	.0	.0	.4	
	22+	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.1	
	TOT %	.1	.1	.1	.1	.1	.1	.1	.1	.0	.1	.8	
1/2<1	0-3	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.2	
	4-10	.1	.0	.1	.1	.1	.1	.0	.2	.0	.0	.6	
	11-21	.1	.1	.1	.1	.1	.2	.0	.1	.0	.0	.6	
	22+	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	TOT %	.2	.1	.2	.1	.1	.4	.0	.3	.0	.0	1.5	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.1	.1	.1	.1	.1	.1	.1	.0	.0	.0	.6	
	11-21	.1	.1	.4	.2	.1	.2	.1	.1	.0	.0	1.3	
	22+	.0	.1	.2	.1	.1	.1	.1	.0	.0	.0	.7	
	TOT %	.2	.3	.6	.5	.3	.4	.2	.1	.0	.0	2.7	
2<5	0-3	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.3	
	4-10	.4	.3	.3	.5	.3	.3	.5	.3	.0	.0	2.9	
	11-21	.4	.4	.7	.8	.3	.4	.2	.5	.0	.0	3.6	
	22+	.1	.4	.4	.5	.3	.2	.1	.1	.0	.0	2.0	
	TOT %	1.0	1.2	1.5	1.8	1.0	.9	.7	.9	.0	.0	8.9	
5<10	0-3	.3	.2	.1	.1	.2	.0	.1	.2	.0	.4	1.6	
	4-10	1.3	1.1	1.1	1.1	1.1	.6	1.1	1.4	.0	.0	8.8	
	11-21	1.4	1.0	2.4	2.1	1.7	1.3	1.1	1.6	.0	.0	12.6	
	22+	.5	.3	1.1	.6	.5	.3	.3	.2	.0	.0	3.8	
	TOT %	3.4	2.6	4.6	3.9	3.5	2.3	2.7	3.4	.0	.4	26.8	
10+	0-3	.4	.6	.6	.5	.4	.3	.3	.4	.0	1.4	4.9	
	4-10	3.6	3.4	4.3	4.1	3.0	2.1	2.1	4.5	.0	.0	27.1	
	11-21	3.0	2.8	5.4	3.7	1.9	1.6	1.8	3.2	.0	.0	23.5	
	22+	.4	.4	1.1	.6	.2	.2	.7	.4	.0	.0	3.9	
	TOT %	7.4	7.2	11.4	8.8	5.5	4.2	4.9	8.5	.0	1.4	59.4	
	TOT OBS												2941
	TOT PCT	12.3	11.5	18.3	15.2	10.6	8.3	8.6	13.3	.0	1.9	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	1.5	1.5	1.9	14.0	23.0	14.7	3.4	.8	.0	.4	61.1	38.9	263
06009	.3	.7	3.5	12.1	20.4	12.5	1.0	2.1	.7	2.4	55.7	44.3	289
12015	1.6	.8	2.9	11.9	14.4	10.7	2.5	.4	2.1	1.2	48.6	51.4	243
18021	1.2	.8	1.6	8.0	18.8	15.6	1.2	.8	.8	.8	49.6	50.4	250
TOT	12	10	26	121	202	140	21	11	9	13	568	482	1047
PCT	1.1	1.0	2.5	11.6	19.3	13.4	2.0	1.1	.9	1.2	54.0	46.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.4	.4	1.2	7.0	21.4	69.6	257
06009	.0	.0	1.4	9.1	17.5	71.9	285
12015	.4	1.3	1.3	5.1	26.3	65.7	236
18021	.0	.0	1.7	6.2	26.4	65.7	242
TOT	2	4	14	71	231	698	1020
PCT	.2	.4	1.4	7.0	22.6	68.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<400 <1	<1000 <3	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	2.3	6.2	23.0	39.7	37.4	257
06009	.4	4.6	20.4	35.8	42.8	285
12015	3.0	7.2	21.2	29.7	49.2	236
18021	1.7	4.1	17.4	34.7	47.9	242
TOT	18	56	209	261	450	1020
PCT	1.8	5.5	20.5	35.4	44.1	100.0

PERIOD: (PRIMARY) 1934-1970
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TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100				
80/84	.0	.0	.0	.2	.5	.5	.7	.1			19	2.1
75/79	.0	.0	.5	1.3	2.2	5.9	5.7	4.9			188	20.5
70/74	.0	.0	.9	2.3	9.6	13.4	17.0	11.0			497	54.1
65/69	.0	.0	.1	1.1	3.0	4.1	6.9	5.1			187	20.3
60/64	.0	.0	.0	.0	.2	.4	1.6	.8			28	3.0
TOTAL	.0	.0	.14	4.5	14.3	22.4	29.2	20.1			919	100.0
PCT	.0	.0	1.5	4.9	15.6	24.4	31.8	21.9				

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP									
N	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	.4	.3	.0	.4	.3	.2	.2	.0	.0
.6	1.6	4.6	3.2	3.8	4.2	2.2	.8	.0	.4
3.5	7.0	13.6	9.6	5.5	3.2	6.0	3.9	.0	1.7
3.2	2.8	3.5	2.0	.7	1.0	2.4	4.5	.0	.2
.4	.9	.5	.4	.0	.1	.1	.7	.0	.0
7.8	12.7	22.6	15.2	9.4	9.0	10.9	10.1	.0	2.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR									
HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0003	84	81	79	72	65	61	57	71.7	794
0609	87	83	79	72	64	61	57	72.4	748
12015	86	81	77	71	63	59	57	70.7	867
18021	82	79	77	71	64	61	57	70.4	744
TOT	87	81	78	72	64	61	57	71.3	3153

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR										
HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0003	.0	6.4	16.7	21.8	32.8	21.4	79	234		
0609	.0	9.7	19.8	25.3	25.5	19.4	77	247		
1215	.0	4.3	13.0	27.4	32.6	22.6	80	230		
1821	.0	4.7	12.3	22.7	35.5	24.6	81	211		
TOT	.0	59	144	225	292	202	79	922		

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	57	61	65	69	73	77	81	MO FOG
	60	64	68	72	76	80	84	
11/13	.0	.0	.0	.1	.1	.0	.0	.0
9/10	.0	.0	.0	.1	.3	.2	.1	.2
7/8	.0	.0	.0	.1	.0	.2	.1	.7
6	.0	.0	.0	.4	.6	.5	.3	.2
5	.0	.3	.3	.7	1.2	1.0	.3	1.7
4	.0	.1	.5	2.4	3.2	1.6	.6	1.3
3	.0	.2	.5	2.4	1.0	1.3	.3	8.4
2	.0	.7	1.7	6.0	6.5	2.0	.3	2.9
1	.0	.1	.4	1.4	1.9	.6	.3	17.0
0	.0	.1	2.5	8.1	5.8	1.1	.0	4.3
-1	.0	1.0	1.4	2.4	1.7	.0	.0	18.2
-2	.0	.1	.4	2.6	2.6	.1	.0	13.3
-3	.0	1.2	3.1	3.7	1.7	.0	.0	9.5
-4	.2	.9	3.1	1.4	.5	.0	.0	2.3
-5	.0	.6	2.3	.3	.1	.0	.0	2.3
-6	.1	.9	1.0	.2	.1	.0	.0	1.4
-7/-8	.1	.6	.5	.2	.0	.0	.0	.3
-9/-10	.1	.6	.5	.2	.0	.0	.0	.3
-11/-13	.1	.6	.5	.2	.0	.0	.0	.3
-14/-16	.1	.2	.3	.3	.0	.0	.0	.3
TOTAL	14	170	433	985	732	307	45	2586
PCT	.5	6.6	16.7	38.0	28.3	8.0	1.7	100.0
								1.3
								98.7

PERIOD: (OVER-ALL) 1963-1970 MAY AREA 0008 YAKU SHIMA 29.0N 130.0E

TABLE 10

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.6	.2	.0	.0	.0	1.0	.2	.0	.0	.0	.0	.0	.2
1-2	.0	1.6	.6	.0	.0	.0	2.2	.2	2.1	.3	.0	.0	.0	2.0
3-4	.0	1.1	2.0	.0	.0	.0	3.1	.2	2.1	1.9	.0	.0	.0	4.4
5-6	.0	.0	.7	.5	.0	.0	1.2	.0	.2	2.0	.6	.0	.0	2.0
7	.0	.0	.4	.0	.0	.0	.4	.0	.2	1.1	.0	.0	.0	1.4
8-9	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.2	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	3.2	3.9	.8	.0	.0	9.2	.6	4.6	5.9	1.1	.0	.0	12.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.0	.2	.0	.0	.0	1.1	.2	.2	.0	.0	.0	.0	.4
1-2	.2	3.2	2.1	.0	.0	.0	5.5	.2	2.3	1.9	.0	.0	.0	4.4
3-4	.0	2.2	6.5	1.0	.0	.0	9.7	.0	2.2	4.1	.7	.0	.0	4.9
5-6	.0	.5	4.0	1.7	.0	.0	5.1	.0	2.2	1.4	.3	.0	.0	2.3
7	.0	.0	2.0	1.7	.3	.0	3.9	.0	.2	.3	.1	.0	.0	.4
8-9	.0	.0	.2	1.1	.0	.0	1.3	.0	.0	.0	.4	.0	.0	.4
10-11	.0	.0	.2	.1	.0	.0	.3	.0	.0	.2	.0	.0	.0	.4
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	6.8	15.1	4.6	.5	.0	27.2	.4	5.2	7.9	2.2	.3	.0	16.0

AREA 0008 YAKU SHIMA
29.0N 130.0E

MAY
TABLE 10

PERIOD: (OVER-ALL) 1963-1970

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.0	.0	.0	.0	.0	.3	.3	.0	.0	.0	.0	.0	.3
1-2	.0	.7	.8	.0	.0	.0	1.2	.0	1.8	1.6	.0	.0	.0	3.4
3-4	.0	.0	2.1	.3	.0	.0	3.1	.0	.6	1.1	.0	.0	.0	1.7
5-6	.0	.2	.7	.1	.0	.0	1.1	.0	.0	.5	.0	.0	.0	1.0
7	.0	.0	.0	.3	.0	.0	.3	.0	.0	.2	.0	.0	.0	.3
8-9	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.3	3.7	1.1	.0	.0	6.4	.3	2.3	3.4	.9	.2	.0	7.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.2	.7	.0	.0	.0	2.9	.2	1.7	1.4	.0	.0	.0	3.4
3-4	.0	.6	2.2	.6	.0	.0	3.3	.0	1.1	1.1	.0	.0	.0	3.2
5-6	.0	.1	1.0	.7	.0	.0	2.3	.0	1.1	1.3	.0	.0	.0	2.4
7	.0	.2	1.0	.6	.0	.0	2.3	.0	.8	.3	.0	.0	.0	2.4
8-9	.0	.0	.0	.1	.2	.0	.4	.0	1.1	.0	.3	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
12	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.7	4.9	2.8	.8	.0	12.1	.2	4.0	4.9	.7	.0	.0	9.8

PERIOD: (OVER-ALL) 1963-1970

MAY

AREA 0608 YAKU SHIMA
29.0N 130.0E

TABLE 16 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)							TOT OBS
	0-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	2.7	3.4	.4	.0	.0	.0	6.3	526
1-2	.6	14.3	9.7	.0	.0	.0	24.3	
3-4	.2	10.6	20.9	2.7	.0	.0	34.4	
5-6	.0	2.1	12.0	3.6	.0	.0	17.9	
7	.0	.4	5.3	3.0	1.1	.0	10.3	
8-9	.0	.4	.6	2.5	.2	.0	3.6	
10-11	.0	.0	.4	1.0	.2	.0	1.5	
12	.0	.0	.0	.6	.2	.0	.8	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.4	31.4	49.4	14.1	1.7	.0	100.0	

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.9	14.7	19.0	8.3	2.1	.9	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	416
6-7	.0	1.4	5.7	8.8	5.6	2.1	1.0	.2	.6	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	223
8-9	.0	.6	1.3	3.5	3.5	1.0	.9	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	103
10-11	.0	.1	.3	.6	.9	.7	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25
12-13	.0	.0	.0	.2	.3	.2	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10
>13	.0	.0	.0	.1	.1	.0	.2	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	8
INDET	3.8	1.4	2.1	1.4	1.4	.3	.1	.0	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	92
TOTAL	5.7	16.1	25.0	20.1	12.2	4.6	2.5	1.0	.9	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	677
PCT	5.7	18.4	28.5	22.9	13.9	5.2	2.9	1.1	1.0	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	100.0

JUNE

PERIOD: (PRIMARY) 1936-1970
(OVER-ALL) 1867-1970

AREA 0000 YAKU CHINA
29.6N 130.0E

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ	TOTAL PCPN AT GB TIME	THOR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
			FRZG PCPN	SNOW PCPN	OTHER PCPN					POG WD	SHOKR HAZE	DUST BLWG	SNOW BLWG	SEA	
N	.9	.2	.0	.0	.0	.0	1.3		.0	.1	.1	.0	.0	.0	.0
NE	2.3	.2	.0	.0	.0	.0	2.9		.1	.1	.1	.0	.0	.0	.0
E	3.0	.2	.0	.0	.0	.0	4.0		.0	.2	.2	.0	.0	.0	.0
SE	1.7	.7	.0	.0	.0	.0	2.6		.0	.2	.1	.0	.0	.0	.0
S	1.6	.1	.0	.0	.0	.0	2.3		.2	.2	.1	.0	.0	.0	.0
SW	2.6	.3	.0	.0	.0	.0	3.3		.3	.1	.1	.0	.0	.0	.0
W	1.2	.1	.0	.0	.0	.0	1.6		.0	.1	.1	.0	.0	.0	.0
NW	.7	.2	.0	.0	.0	.0	.9		.0	.1	.1	.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0		.0	.1	.1	.0	.0	.0	.0
TOT OBS	360	37	2	0	0	0	4		18	34	21	1	1	2042	2693
TOT PCT	13.8	1.4	.1	.0	.0	.0	14.8		.7	1.3	.8	.0	.0	78.4	

45

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ	TOTAL PCPN AT GB TIME	THOR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
			FRZG PCPN	SNOW PCPN	OTHER PCPN					POG WD	SHOKR HAZE	DUST BLWG	SNOW BLWG	SEA	
0000Z	12.0	1.4	.2	.0	.0	.0	16.9		.3	1.3	1.2	.0	.0	.0	.0
0600Z	13.2	1.4	.0	.0	.0	.0	18.0		.0	1.0	1.1	.0	.0	.0	.0
1200Z	14.4	1.9	.1	.0	.0	.0	20.3		1.0	1.4	.0	.0	.0	.0	.0
1800Z	15.8	.8	.0	.0	.0	.0	20.0		1.4	1.0	.0	.0	.0	.0	.0
TOT	365	37	2	0	0	0	496		18	34	22	1	1	2042	2693
PCT	13.9	1.4	.1	.0	.0	.0	18.9		.7	1.4	.8	.0	.0	78.3	

JUNE

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1867-1970

AREA 0000: YAKU SHIMA
29.0N 130.0E

TABLE 2

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)					48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)												
	0-3	4-10	11-21	22-33	34-47					00	03	06	09	12	15	18	21					
N	.8	4.1	2.4	.4	#	.0		7.7	10.3	9.7	7.7	7.9	6.2	7.3	6.8	12.7	12.4	12.4	12.7	12.7	12.4	12.4
NE	.7	4.9	4.4	1.1	.3	.0		11.4	12.3	15.6	13.0	11.9	8.4	10.2	7.8	12.7	12.4	12.4	12.7	12.7	12.4	12.4
E	1.2	6.3	8.7	3.0	.2	.0		19.4	13.8	18.8	23.0	19.6	22.2	18.7	20.7	12.7	12.4	12.4	12.7	12.7	12.4	12.4
SE	.6	5.5	4.6	1.4	.2	#		12.2	12.7	11.1	12.6	11.9	13.4	12.3	13.1	13.1	12.4	12.4	12.7	12.7	12.4	12.4
S	.8	6.1	5.2	1.0	.1	.0		13.2	11.8	10.5	12.0	13.1	18.1	12.3	14.3	13.1	12.4	12.4	12.7	12.7	12.4	12.4
SW	.8	5.9	8.6	1.8	.1	#		17.3	13.6	18.1	15.8	18.4	18.1	19.1	16.1	13.1	12.4	12.4	12.7	12.7	12.4	12.4
W	.5	3.5	2.9	.9	#	.0		7.8	12.3	7.7	7.4	8.8	8.2	6.8	7.3	8.1	12.4	12.4	12.7	12.7	12.4	12.4
NW	1.0	4.9	3.1	.6	.0	.0		9.5	10.4	10.6	7.3	8.0	3.6	12.3	10.0	11.7	11.3	11.3	11.3	11.3	11.3	11.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.6	12.7	1.35	31.4	29	2	3100	1.6	12.2	3.9	1.3	1.6	3.3	3.7	1.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
TOT OBS	243	41.2	39.8	10.1	.9	.1		100.0	100.0	249	478	314	378	350	350	315	315	315	315	315	315	315
TOT PCT	7.8									100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)										41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)									
	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21	24	27	30	33	36	39	42	45
N	2.6	4.0	1.0	.1	.0		7.7	10.0	8.3	8.3	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
NE	2.4	6.4	2.0	.5	.1		11.4	13.8	19.1	19.1	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
E	3.4	9.2	5.7	1.0	.1		19.4	13.8	19.4	19.4	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1
SE	2.6	6.3	2.7	.5	#		12.2	12.7	11.9	11.9	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
S	3.3	6.5	3.1	.3	.0		13.2	11.8	11.4	11.4	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3
SW	2.6	8.7	5.5	.5	#		17.3	13.6	16.8	16.8	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2
W	1.8	3.8	1.9	.3	.0		7.8	12.3	7.5	7.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
NW	3.1	4.7	1.6	.1	.0		9.5	10.4	8.7	8.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.6	15.3	7.9	102	7	3100	1.6	12.2	1.1	1.1	.9	.9	.9	.9	.9	.9	.9	.9	.9	.9	.9	.9	.9	.9
TOT OBS	725	49.6	23.5	3.3	.2		100.0	100.0	825	825	692	692	692	692	692	692	692	692	692	692	692	692	692	692
TOT PCT	23.4								100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1867-1970

JUNE

AREA 0000 YAKU SHIMA
29.0N 130.0E

TABLE 4

HOUR	CALM	PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)					TOTAL OBS
		1-3	4-10	WIND SPEED (KNOTS)	48+	PCT FREQ	
				11-21	22-33	34-47	
0000	1.1	5.6	39.0	43.2	9.7	1.5	825
0600	.9	6.8	39.2	42.1	10.1	.9	692
1200	2.0	6.3	43.5	36.6	10.6	1.0	860
1800	2.4	6.5	42.9	37.8	10.1	.3	723
TOT	49	194	1277	1235	314	29	3100
PCT	1.6	6.3	41.2	39.8	10.1	.9	100.0

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-10	OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.5	1.1	3.1	4.9		6.6	6.6
NE	1.6	1.0	3.6	6.9		6.3	6.3
E	1.0	1.8	5.3	6.6		6.3	6.3
SE	.9	1.0	2.5	5.4		6.4	6.4
S	1.4	1.3	4.6	6.3		6.2	6.2
SW	1.6	1.6	8.0	7.8		6.3	6.3
W	.9	.5	2.5	4.0		6.3	6.3
NW	1.4	1.3	4.6	3.6		5.9	5.9
VAR	.0	.0	.0	.0		.0	.0
CALM	.2	.3	.4	.6		5.4	5.4
TOT OBS	99	103	363	486		6.3	6.3
TOT PCT	9.4	9.8	34.5	46.2		1051	100.0

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION										NH <5/8 TOTAL OBS
	000	150	300	600	1000	2000	3500	5000	6500	8000+	
	149	299	599	999	1999	3499	4999	6499	7999		
N	.0	.0	.2	1.8	2.2	1.0	.2	.2	.2	.0	3.7
NE	.1	.1	.9	2.4	3.7	1.0	.2	.1	.2	.0	4.6
E	.2	.0	.3	.6	3.6	1.8	.1	.1	.3	.2	7.6
SE	.1	.0	.4	.8	2.1	1.2	.2	.2	.2	.1	4.8
S	.1	.3	.6	1.3	2.7	1.5	.3	.1	.2	.1	6.3
SW	.4	.2	.9	2.7	3.3	2.8	.4	.1	.1	.2	8.1
W	.1	.1	.2	1.1	2.1	1.1	.2	.0	.0	.1	3.0
NW	.0	.2	.2	1.2	2.7	1.1	.2	.1	.2	.0	5.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	1.0
TOT OBS	11	7	39	125	237	121	16	9	13	7	466
TOT PCT	1.0	.7	3.7	11.9	22.5	11.5	1.5	.9	1.2	.7	44.3
											1051
											100.0

PERIOD: (PRIMARY) 1931-1970
(OVER-ALL) 1861-1970

JUNE

AREA 0008 YAKU SHIMA
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TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH > 4/8) AND VSBY (NM)

CEILING: (FEET)	VSBY (NM)				
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2
= OR >6500	1.2	2.0	2.0	2.0	2.0
= OR >5000	1.9	2.8	2.8	2.8	2.8
= OR >3500	2.7	4.1	4.3	4.4	4.4
= OR >2000	9.2	14.8	15.7	15.9	15.9
= OR >1000	20.8	33.3	35.9	38.3	38.5
= OR >600	25.5	42.0	47.1	50.1	50.3
= OR >300	26.4	44.6	50.4	53.6	53.9
= OR >150	26.5	45.0	50.8	54.2	54.5
= OR > 0	26.7	45.4	51.3	55.1	55.7
TOTAL	283	481	544	584	590

TOTAL NUMBER OF OBS: 1060

PCT FREQ NH < 5/8: 44.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
5.1	9.4	11.6	9.2	8.4	8.2	9.2	10.0	27.6	1.4	1125	

JUNE

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1867-1970

AREA 0000 YAKU SHIMA
29.0N 130.0E

TABLE 8
PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	#	.1	.1	.1	.1	.1	.1	.0	.0	.0	.0	.8
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	TOT %	.1	.1	.1	.1	.1	.1	.0	.0	.0	.0	.9
1/2<1	#	.3	.4	.2	.1	.2	.0	.1	.0	.0	.0	1.4
	NO PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.3
	TOT %	.1	.3	.5	.2	.3	.0	.1	.0	.0	.0	1.7
1<2	#	.3	.8	.2	.3	.4	.4	.1	.0	.0	.0	2.6
	NO PCP	.0	.1	.1	.1	.1	.1	.0	.0	.0	.0	.5
	TOT %	.2	.4	.3	.3	.5	.5	.1	.0	.0	.0	3.1
2<5	#	1.0	1.1	.9	.5	1.0	.5	.1	.0	.0	.0	5.4
	NO PCP	.1	.2	.3	.2	.6	.2	.2	.0	.0	.1	2.3
	TOT %	.4	1.1	1.2	.7	1.7	.7	.3	.0	.0	.1	7.7
5<10	#	1.0	1.2	.7	1.1	1.2	.3	.3	.0	.0	.0	6.5
	NO PCP	1.6	2.4	2.5	3.2	4.6	1.9	2.0	.0	.0	.3	23.2
	TOT %	2.2	3.4	3.2	4.4	5.8	2.1	2.3	.0	.0	.3	29.7
10+	#	.2	.5	.4	.1	.4	.3	.3	.0	.0	.0	2.5
	NO PCP	4.8	6.0	6.5	7.4	8.6	4.2	6.6	.0	.0	.8	34.7
	TOT %	4.9	6.2	10.3	7.6	9.0	4.5	6.9	.0	.0	.8	37.1
TOT OBS		7.8	11.6	19.1	11.9	13.2	17.4	9.8	.0	1.3	100.0	2602
TOT PCT												

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1867-1970

JUNE

AREA 0008 YAKU SHIMA
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TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.1	.1	.1	.1	.1	.1	.1	.1	.0	.0	.1	.1
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.1	.1	.1	.1	.1	.1	.1	.1	.0	.0	.1	.1
1<2	0-3	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
	4-10	.1	.2	.1	.1	.1	.2	.1	.1	.0	.0	.0	.0
	11-21	.1	.2	.4	.3	.2	.4	.2	.1	.0	.0	.0	.0
	TOT %	.1	.2	.5	.4	.3	.6	.3	.2	.0	.0	.0	.0
2<5	0-3	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0
	4-10	.2	.5	.5	.4	.6	.5	.2	.3	.0	.0	.0	.0
	11-21	.2	.6	1.0	.7	.6	1.1	.5	.1	.0	.0	.0	.0
	TOT %	.1	.1	.7	.5	.2	.6	.2	.4	.0	.0	.0	.0
5<10	0-3	.1	.3	.3	.2	.3	.2	.2	.9	.0	.0	.0	.0
	4-10	1.0	1.0	1.6	1.2	1.7	1.5	1.0	1.0	.0	.0	.0	.0
	11-21	.9	1.6	2.6	1.3	1.7	3.1	.6	.8	.0	.0	.0	.0
	TOT %	2.1	3.2	5.5	3.1	4.0	5.4	2.0	2.3	.0	.0	.0	.0
10+	0-3	.5	.4	.6	.3	.4	.6	.3	.6	.0	.0	.0	.0
	4-10	2.9	3.1	3.8	3.6	3.8	3.6	2.2	3.5	.0	.0	.0	.0
	11-21	1.2	2.1	4.5	2.0	2.8	3.8	1.4	2.1	.0	.0	.0	.0
	TOT %	4.6	6.0	9.8	6.4	7.3	8.5	4.3	6.3	.0	.0	.0	.0
TOT OBS		7.8	11.3	19.2	12.0	13.6	17.2	7.8	9.7	.0	1.4	100.0	2860

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1867-1970

JUNE

AREA 0008 YAKU SHIMA
29.9N 130.0E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	200 599	300 599	400 599	500 599	600 599	700 599	800+ 599	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	1.0	.0	3.5	13.2	24.3	9.4	1.4	.7	.0	1.0	54.5	288
06009	.4	1.5	3.5	12.7	19.2	11.2	3.1	.4	1.5	.4	53.8	260
12015	1.4	.7	4.0	9.0	22.7	11.9	1.1	.4	1.1	1.1	53.4	277
18021	1.6	.4	3.5	11.6	21.7	12.8	.8	1.9	2.3	.4	57.0	258
TOT	12	7	39	126	239	122	17	9	13	8	592	1083
PCT	1.1	.6	3.6	13.6	22.1	11.3	1.6	.8	1.2	.7	54.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.7	.4	2.1	8.2	26.8	61.8	280
06009	.8	2.3	1.9	7.0	26.0	62.0	258
12015	.4	1.9	3.0	5.9	32.7	56.1	269
18021	.8	1.6	2.7	6.6	31.4	57.0	258
TOT	7	16	26	74	311	631	1065
PCT	.7	1.5	2.4	6.9	29.2	59.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	1.1	5.4	24.4	31.8	43.6	280
06009	1.6	8.1	25.2	31.0	43.8	258
12015	1.5	7.8	23.0	33.1	43.9	269
18021	3.1	7.4	22.1	36.8	41.1	258
TOT	19	76	253	353	459	1065
PCT	1.8	7.1	23.8	33.1	43.1	100.0

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PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1867-1970

AREA 0008 YAKU SHIMA
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TABLE 13

		PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL	PCT
TEMP F		0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	90-100	90-100	DBS	FREQ
90/94	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	1	.1
85/89	.0	.2	.0	.0	.0	.2	1.1	.8	.0	.0	.0	21	2.3
80/84	.0	.0	.0	.0	.1	1.1	3.6	9.6	6.4	.0	.0	192	20.8
75/79	.0	.0	.0	.0	.4	3.6	8.3	11.5	16.4	.0	.0	371	40.2
70/74	.0	.0	.0	.0	.3	2.6	9.4	19.5	11.2	.0	.0	305	33.0
65/69	.0	.0	.0	.0	.0	.0	.5	1.2	1.5	.0	.0	30	3.3
60/64	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	3	.3
TOTAL	.0	2	0	0	8	70	212	304	327	.0	.0	923	100.0
PCT	.0	.2	.0	.0	.9	7.6	23.0	32.9	35.4				

TABLE 14

		PERCENT FREQUENCY OF WIND DIRECTION BY TEMP										VAR	CALM
TEMP F		N	NE	E	SE	S	SW	W	NW	VAR	CALM		
90/94	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
85/89	.1	.2	.2	.2	.2	.3	.8	.1	.1	.0	.0	.0	.0
80/84	.4	1.1	1.4	1.7	5.1	5.1	8.5	1.4	1.1	.0	.0	.0	.1
75/79	3.8	4.8	6.1	5.8	6.2	6.9	2.8	2.8	3.3	.0	.0	.0	.7
70/74	5.4	5.4	6.3	2.9	1.2	1.8	2.8	6.7	.0	.0	.0	.0	.5
65/69	.5	1.0	.4	.3	.4	.1	.3	.2	.0	.0	.0	.0	.1
60/64	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1
TOTAL	10.2	12.7	14.4	10.9	13.6	18.0	7.4	11.4	.0	.0	.0	.0	1.4

TABLE 15

		MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR										TOTAL	DBS
HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	MEAN	MEAN	MEAN	DBS	
00003	90	86	83	76	70	66	63	76.5	815			815	
06009	91	86	85	77	70	66	61	77.4	688			688	
12015	88	82	81	75	69	64	63	75.0	861			861	
18021	88	82	81	75	69	66	57	74.9	721			721	
TOT	91	86	82	75	70	66	59	75.9	3085			3085	

TABLE 16

		PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR										TOTAL	DBS
HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	MEAN	MEAN	DBS	
00003	.0	1.2	7.5	29.0	34.3	31.1	83					83	
06009	.0	1.9	12.1	20.2	31.1	26.7	82					82	
12015	.0	.8	5.0	19.5	32.4	42.3	85					85	
18021	.0	.4	6.4	19.1	33.5	40.7	85					85	
TOT	.0	10	71	216	308	332	84					84	

PERIOD: (PRIMARY) 1934-1970
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	61	65	69	73	77	81	85	89	TOT	W	NO FOG
	64	68	72	76	80	84	88	92		FOG	
11/13	.0	.0	.0	#	#	#	.2	#	7	.0	.3
9/10	.0	.0	#	#	.3	.2	#	.0	15	.1	.3
7/8	.0	.0	#	.2	.3	.6	.2	.1	35	.0	1.4
6	.0	.0	.0	.0	.2	1.1	#	.0	10	.0	.4
5	.0	.0	.1	.2	.6	1.1	.8	.1	72	#	2.9
4	.0	.0	.2	.9	1.6	1.9	.3	.1	125	.2	4.8
3	.0	.0	.1	.3	.9	.6	.1	.0	50	.1	1.9
2	.0	.1	.7	2.6	4.7	3.0	.1	.0	276	.3	10.8
1	#	.1	2.2	7.6	6.6	4.2	.0	.0	100	#	4.0
0	.1	.3	.5	1.7	1.6	.3	.0	.0	325	.2	20.9
-1	.0	.0	.5	2.9	7.9	1.8	.0	.0	104	.0	4.2
-2	.1	.6	2.9	7.3	4.9	1.8	.0	.0	430	.1	18.0
-3	.0	.1	.5	2.3	1.1	.1	.0	.0	103	#	4.1
-4	.2	.3	3.6	6.0	2.2	.2	.0	.0	308	.2	12.2
-5	.1	.3	1.9	2.7	.5	#	.0	.0	138	.1	5.3
-6	.0	.1	.6	1.1	.1	.0	.0	.0	41	.0	1.4
-7/-8	.1	.6	1.6	1.1	.1	.0	.0	.0	86	.0	3.5
-9/-10	.1	.2	.6	.2	.0	.0	.0	.0	27	.0	1.1
-11/-13	.0	.2	.2	.1	.0	.0	.0	.0	13	.0	.3
TOTAL	18	72	401	894	687	362	43	.6	2485	34	2451
PCT	.7	2.9	16.1	35.9	27.6	14.6	1.7	.3	100.0	1.4	98.6

PERIOD: (OVER-ALL) 1963-1970 JUNE AREA 0008 YAKU SHIMA
29.0N 130.0E

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2	.0	1.0	.0	.0	.0	.0	1.2
1-2	.0	1.1	1.3	.0	.0	.0	2.5	.4	2.6	2.7	.0	.0	.0	3.7
3-4	.2	1.5	1.9	.0	.0	.0	3.6	.0	2.7	2.1	.4	.0	.0	5.7
5-6	.0	.0	.6	.2	.0	.0	1.6	.0	.3	1.9	.7	.0	.0	2.3
7	.0	.2	.6	.2	.0	.0	1.0	.0	.2	.5	.4	.0	.0	1.3
8-9	.0	.0	.2	.4	.0	.0	.6	.0	.0	.1	.1	.0	.0	.7
10-11	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	3.7	4.9	.9	.2	.0	9.8	.4	6.8	7.4	2.1	.3	.0	17.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.3	.0	.0	.0	.0	1.3	.0	.8	.0	.0	.0	.0	.8
1-2	.2	2.7	1.7	.0	.0	.0	4.7	.0	1.9	.5	.0	.0	.0	3.4
3-4	.0	1.5	3.2	.2	.0	.0	5.0	.1	.9	2.1	.3	.0	.0	3.3
5-6	.0	.3	1.1	.4	.0	.0	1.6	.0	.1	1.2	.7	.0	.0	1.9
7	.0	.0	1.4	.0	.0	.0	1.7	.0	.0	.1	.1	.0	.0	.2
8-9	.0	.0	.2	.0	.0	.0	.2	.0	.0	.2	.7	.0	.0	.9
10-11	.0	.0	.0	.3	.0	.0	.5	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	5.8	7.8	1.3	.2	.0	15.3	.1	3.7	4.1	1.3	.4	.2	9.8

PERIOD: (OVER-ALL) 1963-1970

JUNE

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

AREA 0008 YAKU SHIMA 29.9N 130.0E														
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	TOT PCT
<1	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	17.9
1-2	.0	2.5	2.0	.0	.0	.0	4.5	.0	.8	2.3	.0	.0	.0	2.2
3-4	.0	1.4	2.1	.2	.0	.0	3.8	.0	1.1	4.4	.9	.0	.0	2.3
5-6	.0	.4	2.2	.4	.0	.0	3.0	.0	.3	2.9	.3	.0	.0	2.3
7	.0	.0	.3	.0	.0	.0	.3	.0	.0	1.7	1.1	.0	.0	2.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	2.4
10-11	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.2	.0	.0	2.7
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	.0	.0	4.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0
TOT PCT	.0	4.3	6.7	1.0	.0	.0	12.0	.4	2.2	12.2	2.9	.0	.2	17.9

AREA 0008 YAKU SHIMA 29.9N 130.0E														
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1
1-2	.2	1.8	1.0	.0	.0	.0	2.0	.1	2.0	1.2	.0	.0	.0	3.2
3-4	.0	1.1	1.2	.0	.0	.0	2.3	.0	2.0	1.0	.2	.0	.0	3.2
5-6	.0	.4	1.7	.0	.0	.0	2.1	.0	.1	.4	.3	.0	.0	.8
7	.0	.0	.4	.2	.0	.0	.5	.0	.2	.2	1.1	.0	.0	.3
8-9	.0	.0	.0	.4	.0	.0	.4	.0	.0	.2	.3	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	3.5	3.3	.8	.0	.0	8.0	.1	4.4	3.3	1.1	.0	.0	8.9

JUNE

AREA 0008 YAKU SHIMA
29.0N 130.0E

PERIOD: (OVER-ALL) 1963-1970

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)							TOT OBS
	0-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	3.0	3.9	.2	.0	.0	.0	7.1	467
1-2	1.1	15.2	11.6	.0	.0	.0	27.8	
3-4	.4	12.0	17.6	2.1	.0	.0	32.1	
5-6	.0	2.4	12.2	1.7	.0	.0	16.3	
7	.0	.6	5.1	2.6	.0	.0	8.4	
8-9	.0	.0	1.1	1.5	.2	.0	2.8	
10-11	.0	.0	.6	1.9	.4	.2	1.9	
12	.0	.0	.4	.9	.4	.0	.9	
13-16	.0	.0	.0	.4	.4	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.5	34.0	48.8	11.1	1.1	.4	100.0	

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)																			TOTAL	MEAN HGT
	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+		
<6	1.8	16.2	22.5	8.5	3.2	.9	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
6-7	.0	2.0	5.7	7.6	4.6	.9	.5	.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.6	1.5	2.0	2.5	1.2	.6	.4	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.1	.5	.5	.7	.7	.7	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12-13	.0	.0	.2	.0	.1	.4	.0	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
>13	.0	.0	.0	.0	.1	.1	.1	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	
INDET	3.9	2.6	1.9	.9	.4	.1	.1	.2	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOTAL	4.8	18.4	27.7	16.7	9.8	3.6	2.1	1.2	1.1	1.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	
PCT	5.6	21.5	32.3	19.5	11.4	4.2	2.5	1.4	1.3	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	

JULY

AREA 0008 YAKU SHINA
29.0N 129.0EPERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1869-1970

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN SHR	RAIN SHR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT OBS TIME	TOTAL PCPN OBS	THDR LYNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				FRZG PCPN	SNOW PCPN	OTHER PCPN					POG PCPN	SMOKE NO	HAZE NO	BLWD NO	DUST NO	
N	.2	.1	.1	.0	.0	.0	.0	.3		.0	#	.0	.0	.0	.0	3.4
NE	.2	.1	.1	.0	.0	.0	.0	.4		.0	#	.0	.0	.0	.0	3.6
E	.4	.3	.1	.0	.0	.0	.0	.8		.1	.1	.0	.0	.0	.0	18.3
SE	.3	.1	#	.0	.0	.0	.0	.5		.2	.1	.0	.0	.0	.0	16.4
S	.8	.3	.1	.0	.0	.0	.0	1.1		.2	.1	.0	.0	.0	.0	17.8
SW	1.2	.4	.3	.0	.0	.0	.0	2.0		.3	.1	.0	.0	.0	.0	21.0
W	.3	.1	.2	.0	.0	.0	.0	.5		#	.1	.0	.0	.0	.0	7.4
NW	.1	#	.0	.0	.0	.0	.0	.1		.0	.0	.0	.0	.0	.0	3.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	1.4
TOT OBS	91	37	23	.0	.0	.0	.0	.0	180	22	17	.0	.0	.0	.0	239.3
TOT PCT	3.5	1.4	.9	.0	.0	.0	.0	5.8		.8	.7	.0	.0	.0	.0	92.3

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN SHR	RAIN SHR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT OBS TIME	TOTAL PCPN OBS	THDR LYNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				FRZG PCPN	SNOW PCPN	OTHER PCPN					POG PCPN	SMOKE NO	HAZE NO	BLWD NO	DUST NO	
0003	4.2	2.3	.8	.0	.0	.0	.0	7.2		.2	.3	1.1	.0	.0	.0	91.4
0609	2.5	1.4	.9	.0	.0	.0	.0	4.8		.0	.9	.0	.0	.0	.0	93.6
1215	3.3	1.0	1.1	.0	.0	.0	.1	5.6		1.7	.4	.3	.0	.0	.0	92.4
1821	3.9	1.3	.6	.0	.0	.0	.0	5.6	131	1.6	.8	.3	.0	.0	.0	91.9
TOT	91	38	.3	.0	.0	.0	.1	1		23	17	16	.0	.0	.0	241.7
PCT	3.5	1.5	.9	.0	.0	.0	#	5.8		.9	.6	.6	.0	.0	.0	92.3

JULY

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1869-1970

AREA 0002 YAKU SHIMA
29.0N 129.0E

TABLE 3
PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-3	4-10	11-21	22-33	34-47	48+	49+	00	03	06	09	12	15	18	21	24	27	30
N	.8	2.1	.5	.2	.1	.0	.0	2.5	1.8	3.0	5.0	4.9	4.7	3.0	4.1	4.7	3.0	4.1
NE	.9	3.3	1.9	.4	.1	.0	.0	6.8	10.1	4.9	7.0	4.1	6.9	2.9	4.1	6.9	3.0	4.1
E	1.2	7.6	6.5	1.3	.2	.0	.0	12.7	20.0	13.1	18.4	14.3	19.4	13.1	14.3	19.4	13.1	14.3
SE	.6	9.2	6.4	.9	.1	.0	.0	12.7	14.8	14.9	18.7	17.3	20.9	13.2	17.3	20.9	13.2	17.3
S	.8	10.3	6.9	.9	.2	.0	.0	21.0	18.0	19.3	18.0	16.8	17.6	19.3	16.8	17.6	19.3	16.8
SW	1.3	8.3	10.9	2.0	.0	.0	.0	27.3	22.3	23.1	20.0	20.3	17.8	23.1	20.3	17.8	23.1	20.3
W	.5	3.1	4.0	.5	.0	.0	.0	8.6	8.3	10.6	8.3	8.4	9.8	10.6	8.4	9.8	10.6	8.4
NW	.5	2.4	1.0	.2	.0	.0	.0	5.7	3.2	2.7	2.8	3.6	3.9	2.7	3.6	3.9	2.7	3.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.0	1341	1102	187	21	1	2900	2.0	1.5	1.3	1.9	4.1	2.9	1.3	4.1	2.9	1.3	4.1
TOT OBS	248	38.0	6.4	.7	.0	.0	.0	302	411	304	377	314	497	321	377	497	321	377
TOT PCT	8.6	46.2	38.0	6.4	.7	.0	.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)										TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+	42+	43+	44+	45+	46+	47+	48+	49+	00	03	06	09	12
N	2.0	1.2	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	2.1	4.1	4.1	4.1
NE	2.7	2.4	1.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.7	8.7	6.1	6.1	6.1
E	4.1	6.6	3.3	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	16.9	16.9	17.0	17.0	17.0
SE	4.3	10.3	2.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	14.0	14.0	17.0	17.0	17.0
S	4.6	12.1	2.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	19.3	19.3	18.4	18.4	18.4
SW	4.4	11.9	3.8	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	24.4	24.4	23.6	23.6	23.6
W	1.5	4.7	2.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.3	8.3	9.4	9.4	9.4
NW	1.7	2.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.2	4.2	2.8	2.8	2.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.0	1543	495	72	3	2900	2.0	1.5	1.3	1.9	4.1	2.9	1.3	2.0	2.0	1.3	1.9	4.1
TOT OBS	787	53.2	17.1	2.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	713	713	681	681	681
TOT PCT	27.1	17.1	2.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1924-1970
(OVER-ALL) 1869-1970

AREA 0008 YAKU SHIMA
29.5N 129.9E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)												
HOUR	CALM	1-3			4-10			WIND SPEED (KNOTS)			PCT FREQ	TOTAL OBS
		1-3	4-10	5-6	4-10	11-21	22-33	34-47	48+			
0000	2.0	5.6	41.9	43.1	6.6	.7	.1	11.6	100.0	713		
0600	1.5	6.9	44.9	37.9	7.9	.9	.0	11.6	100.0	811		
1200	2.8	7.4	48.6	35.0	5.4	.7	.0	10.6	100.0	811		
1800	1.4	6.3	49.2	36.4	6.0	.6	.0	10.9	100.0	495		
TOT	57	191	1341	1102	187	21	1	11.1	100.0	2900		
PCT	2.0	6.6	46.2	38.0	6.4	.7	#					

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION									
WIND DIR	0-2	3-4	5-7	8-6	OBS	TOTAL OBS	MEAN CLOUD COVER		
							OBS		
N	.9	.7	1.1	.7	.7	4.8	4.8	4.8	4.8
NE	1.3	.5	1.3	.7	.7	4.3	4.3	4.3	4.3
E	3.8	4.6	4.2	1.4	1.4	4.0	4.0	4.0	4.0
SE	3.7	4.9	3.8	1.5	1.5	4.1	4.1	4.1	4.1
S	6.6	4.4	6.7	2.0	2.0	4.1	4.1	4.1	4.1
SW	6.9	6.7	12.2	4.3	4.3	4.7	4.7	4.7	4.7
W	2.4	2.1	3.8	1.0	1.0	4.5	4.5	4.5	4.5
NW	1.4	.6	1.1	.5	.5	4.0	4.0	4.0	4.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.0	.5	.2	.3	.3	3.1	3.1	3.1	3.1
TOT OBS	305	272	375	136	1088	1088	1088	1088	1088
TOT PCT	28.0	25.0	34.5	12.5	100.0	100.0	100.0	100.0	100.0

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) BY WIND DIRECTION									
WIND DIR	0-2	3-4	5-7	8-6	OBS	TOTAL OBS	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) BY WIND DIRECTION		
							OBS		
N	.9	.7	1.1	.7	.7	4.8	4.8	4.8	4.8
NE	1.3	.5	1.3	.7	.7	4.3	4.3	4.3	4.3
E	3.8	4.6	4.2	1.4	1.4	4.0	4.0	4.0	4.0
SE	3.7	4.9	3.8	1.5	1.5	4.1	4.1	4.1	4.1
S	6.6	4.4	6.7	2.0	2.0	4.1	4.1	4.1	4.1
SW	6.9	6.7	12.2	4.3	4.3	4.7	4.7	4.7	4.7
W	2.4	2.1	3.8	1.0	1.0	4.5	4.5	4.5	4.5
NW	1.4	.6	1.1	.5	.5	4.0	4.0	4.0	4.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.0	.5	.2	.3	.3	3.1	3.1	3.1	3.1
TOT OBS	305	272	375	136	1088	1088	1088	1088	1088
TOT PCT	28.0	25.0	34.5	12.5	100.0	100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1869-1970

JULY

AREA 0008 YAKU SHIMA
29.9N 129.9E

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH > 478) AND VSBY (NH)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	VSBY (NH) = OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.6	.7	.8	.8	.8	.8	.8	.8
= OR >5000	.6	.8	.9	.9	.9	.9	.9	.9
= OR >3500	1.2	1.5	1.6	1.6	1.6	1.6	1.6	1.6
= OR >2000	5.0	7.2	7.3	7.4	7.4	7.4	7.4	7.4
= OR >1000	11.9	17.1	17.8	18.1	18.1	18.1	18.1	18.1
= OR >600	14.4	20.8	22.2	22.6	22.6	22.6	22.6	22.6
= OR >300	14.9	21.5	23.2	23.3	23.7	23.8	23.8	23.8
= OR >150	14.9	21.5	23.2	23.3	23.7	23.8	23.8	23.8
= OR >0	15.0	21.7	23.4	23.6	24.0	24.1	24.1	24.1
= OR TOTAL	163	236	255	257	261	262	262	262

TOTAL NUMBER OF OBS: 1088

PCT FREQ NH < 5/8: 75.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
6.2	17.9	26.1	15.0	10.0	5.5	5.5	7.7	4.2	7.1	.2	1138

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1869-1970

JULY

AREA 0008 YAKU SHINA
29.9N 125.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS.
PCP	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	
<1/2 ND PCP	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
TOT %	*	.0	.0	*	.0	.0	.0	.0	.0	.0	.1	
PCP	.1	*	*	.0	*	.1	.0	.0	.0	.0	.3	
1/2<1 ND PCP	.0	.0	.0	.0	.0	*	*	.0	.0	.0	.1	
TOT %	.1	*	*	.0	*	.2	*	.0	.0	.0	.3	
PCP	*	.1	.1	*	.1	.3	.1	*	.0	.0	.7	
1<2 ND PCP	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
TOT %	*	.1	.1	.1	.1	.3	.1	*	.0	.0	.8	
PCP	.0	*	.1	.1	.2	.6	.1	*	.0	.0	1.2	
2<5 ND PCP	.1	.1	.2	.2	.5	.5	.1	*	.0	*	1.4	
TOT %	.1	.1	.3	.3	.4	1.0	.3	.1	.0	*	2.6	
PCP	.1	.2	.4	.2	.5	.8	.2	*	.0	.0	2.6	
5<10 ND PCP	.6	1.5	2.8	2.5	2.7	3.8	1.0	1.0	.0	.2	16.0	
TOT %	.7	1.7	3.3	2.7	3.2	4.6	1.2	1.0	.0	.2	18.6	
PCP	.1	*	.2	.1	.3	.2	.1	*	.0	.0	1.0	
10+ ND PCP	2.8	4.2	12.7	14.0	15.1	17.1	6.6	2.8	.0	1.4	76.6	
TOT %	2.8	4.3	12.9	14.1	15.4	17.3	6.7	2.8	.0	1.4	77.6	
TOT OBS												2590
TOT PCT	3.7	6.2	16.6	17.2	19.1	23.3	8.3	3.9	.0	1.6	100.0	

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1869-1970

JULY

AREA 0008 YAKU SHIMA
29.9N 129.9E

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

WSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAP	CR-M	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5<10	0-3	.1	.1	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2
	4-10	.1	.1	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2
	11-21	.1	.1	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2
	22+	.1	.1	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2
	TOT %	.1	.1	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2
10+	0-3	.7	.6	.7	.5	.6	.6	.3	.3	.0	.0	.0	.0
	4-10	.7	.6	.7	.5	.6	.6	.3	.3	.0	.0	.0	.0
	11-21	.7	.6	.7	.5	.6	.6	.3	.3	.0	.0	.0	.0
	22+	.7	.6	.7	.5	.6	.6	.3	.3	.0	.0	.0	.0
	TOT %	.7	.6	.7	.5	.6	.6	.3	.3	.0	.0	.0	.0
TOT OBS		3.7	6.4	16.8	17.3	19.0	22.8	8.4	3.8	.0	1.9	100.0	2742

JULY

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1869-1970

AREA 0000 YAKU SHIMA
20.5N 129.0E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NH > 2/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 399	400 499	500 599	600 699	700 799	800 899	900 999	1000 1099	1100 1199	1200 1299	1300 1399	1400 1499	1500 1599	1600 1699	1700 1799	1800 1899	1900 1999	2000 2099	2100 2199	2200 2299	2300 2399	2400 2499	TOTAL OBS
00003	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	280
06009	.7	.0	2.1	3.8	12.2	6.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	286
12015	.0	.0	1.5	3.6	9.5	4.4	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	278
18021	.4	.0	.7	3.2	10.1	3.8	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	277
TOT PCT	3 .3	0 .0	14 1.2	50 4.4	119 10.6	67 6.0	7 .6	1 .1	8 .4	4 .4	270 24.0	836 76.0	1126 100.0												

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.0	.4	3.9	12.5	83.2	280
06009	.0	.7	.0	2.5	15.3	81.5	275
12015	.4	.7	.4	2.2	15.9	80.4	271
18021	.0	.0	.0	1.9	15.6	82.5	263
TOT PCT	1 .1	4 .4	2 .2	29 2.7	161 14.8	892 81.9	1089 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET) NH > 2/8) BY HOUR

HOUR (GMT)	<150 CEILING	<500 CEILING	<1000 CEILING	<1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	.0	.7	10.4	18.2	71.4	280
06009	.7	3.3	8.0	19.6	72.4	275
12015	.4	2.6	7.4	13.7	79.0	271
18021	.4	1.1	6.1	16.7	77.2	263
TOT PCT	4 .4	21 1.9	87 8.0	186 17.1	816 74.8	1089 100.0

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PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1869-1970

AREA 0008 YAKU SHIMA
29.9N 129.9E

TABLE 13

		PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL	
TEMP F		0-29	30-39	40-49	50-59	60-69	70-79	80-79	90-100			DBS	PCT
90/94	.0	.0	.0	.0	.0	.9	.7	.2	.0	18	1.7	187	17.7
85/89	.0	.0	.0	.0	.1	.9	8.5	7.4	.9	187	17.7	697	66.1
80/84	.0	.0	.0	.0	.0	1.0	11.6	37.5	15.8	139	13.2	139	13.2
75/79	.0	.0	.0	.0	.0	.2	1.7	3.8	7.5	13	1.2	1	1.1
70/74	.0	.0	.0	.0	.0	.0	.4	.2	.7	1	1.2	1	1.1
65/69	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	1.1	1055	100.0
TOTAL	.0	.0	.0	.0	.2	2.9	22.8	49.1	24.9	1055	100.0		
PCT	.0	.0	.0	.0	.2	2.9	22.8	49.1	24.9	1055	100.0		

TABLE 14

		PERCENT FREQUENCY OF WIND DIRECTION BY TEMP										TOTAL	
TEMP F		N	NE	E	SE	S	SW	W	NW	VAR	CALM	DBS	PCT
90/94	.2	.1	.2	.2	.2	.2	.7	.1	.0	.0	.0	187	17.7
85/89	.5	1.0	2.5	2.9	3.4	3.6	5.2	1.2	.7	.0	.4	697	66.1
80/84	1.3	1.9	10.0	11.5	13.6	19.9	5.4	1.5	.0	.9	.5	139	13.2
75/79	1.0	.4	1.1	.9	2.6	3.7	2.3	.7	.0	.5	.0	13	1.2
70/74	.2	.1	.0	.0	.0	.3	.4	.0	.0	.0	.0	1	1.1
65/69	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	1.1
TOTAL	3.1	3.7	13.8	15.6	19.8	29.8	9.4	3.1	.0	1.0			
PCT	3.1	3.7	13.8	15.6	19.8	29.8	9.4	3.1	.0	1.0			

TABLE 15

		MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR										TOTAL	
HOUR (GMT)		MAX	99%	95%	50%	5%	1%	MIN	MEAN	DBS	TOTAL	DBS	PCT
0003	93	90	88	82	77	73	66	82.4	712	677	677	677	677
0609	35	91	89	83	77	72	70	83.2	677	677	677	677	677
1215	90	86	84	82	76	72	69	81.1	816	816	816	816	816
1821	91	86	84	81	76	73	70	80.9	694	694	694	694	694
TOT	95	90	87	82	77	73	66	81.9	2859	2859	2859	2859	2859

TABLE 16

		PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR										TOTAL	
HOUR (GMT)		0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	DBS	TOTAL	PCT
0003	0	.0	.4	.4	2.9	25.6	51.3	19.8	84	84	273	273	273
0609	0	.0	.0	.0	7.3	36.9	40.8	15.0	81	81	260	260	260
1215	0	.0	.4	.4	1.5	17.4	50.6	30.2	86	86	265	265	265
1821	0	.0	.0	.0	.0	11.3	52.8	35.8	87	87	265	265	265
TOT	0	0	2	2	31	242	520	268	84	84	1063	1063	1063

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1869-1970

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AREA 0008 YAKU SHIMA
29.9N 129.9E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65	59	73	77	81	85	89	92	TOT	W FOG	WD FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
11/13	.0	.0	.0	.0	.0	.0	.0	.0	4	.0	.2
9/10	.0	.0	.0	.0	.1	.2	.4	.0	18	.0	.7
7/8	.0	.0	.0	.0	.2	.1	.3	.1	22	.0	.9
6	.0	.0	.0	.1	.2	.1	.2	.0	16	.0	.6
5	.0	.0	.0	.0	1.2	1.5	.4	.0	77	.0	3.1
4	.0	.0	.0	.5	3.4	2.6	.3	.0	172	.0	6.9
3	.0	.0	.0	.4	1.2	1.2	.1	.0	70	.0	2.8
2	.0	.0	.1	2.3	12.9	2.6	.1	.0	466	.2	17.8
1	.0	.0	.2	1.4	3.9	1.3	.0	.0	169	.0	6.8
0	.1	.2	.4	4.1	20.2	1.9	.0	.0	666	.2	26.7
-1	.0	.0	.1	.9	4.6	.4	.0	.0	150	.0	6.0
-2	.0	.2	.9	3.7	11.8	.4	.0	.0	422	.2	16.8
-3	.0	.0	.2	.7	1.3	.1	.0	.0	57	.0	2.3
-4	.0	.0	.9	1.8	1.9	.0	.0	.0	114	.0	4.6
-5	.0	.0	.4	.8	.7	.0	.0	.0	49	.0	2.0
-6	.0	.1	.2	.3	.0	.0	.0	.0	13	.0	.5
-7/-8	.0	.0	.3	.1	.0	.0	.0	.0	11	.0	.4
-9/-10	.0	.0	.1	.0	.0	.0	.0	.0	4	.0	.2
-11/-13	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
TOTAL	2	17	94	424	1579	314	48	4	2482	17	2465
PCT	.1	.7	3.8	17.1	63.6	12.7	1.9	.2	100.0	.7	99.3

JULY

PERIOD: (OVER-ALL) 1963-1970

AREA 0008 YAKU SHIMA
29.9N 129.9E

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.3	.0	.0	.0	.0	.6	.0	.7	.0	.0	.0	.0	.7
1-2	.0	.6	.0	.0	.0	.0	.6	.0	.7	.0	.0	.0	.0	1.3
3-4	.0	.5	.5	.3	.0	.0	1.3	.0	.6	.1	#	.0	.0	.7
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.0	.0	.0	.3
7	.0	.0	.0	.6	.0	.0	.6	.0	.0	#	.1	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	#	.0	#
13-16	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.4	.5	.9	.6	.0	3.7	.0	2.0	.9	.2	.1	.0	3.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.3	.3	.0	.0	.0	1.6	.2	1.2	.2	.0	.0	.0	1.6
1-2	.0	1.8	1.4	.0	.0	.0	3.2	.2	4.5	.8	.0	.0	.0	5.3
3-4	.0	1.8	2.2	.1	.0	.0	4.1	.0	1.9	2.2	#	.0	.0	4.2
5-6	.0	1.0	.7	.0	.0	.0	1.7	.0	.1	1.0	.0	.0	.0	1.2
7	.0	.0	1.3	.5	.0	.0	1.8	.0	.2	.4	.5	.0	.0	1.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	#	.0	.0	#
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.0	6.0	.6	.1	.0	12.7	.4	7.9	4.7	.6	.0	.0	13.6

PERIOD: (OVER-ALL) 1963-1970

JULY

TABLE 18

AREA 0008 YAKU SHIMA
29.0N 129.9E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.0	.2	.0	.0	.0	1.5	.3	.5	.0	.0	.0	.0	.7
1-2	.0	6.4	2.6	.0	.0	.0	9.0	.0	4.7	5.4	.0	.0	.0	10.1
3-4	.0	2.8	4.8	.2	.0	.0	7.7	.0	2.2	7.2	1.4	.0	.0	10.8
5-6	.0	.5	1.2	.0	.0	.0	1.7	.0	.6	5.2	.0	.0	.0	6.5
7	.0	.2	.4	.0	.0	.0	.6	.0	.3	1.3	1.5	.0	.0	3.1
8-9	.0	.0	.0	.0	.0	.0	.3	.0	.2	.2	.5	.0	.0	.8
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.4	.0	.0	.4
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	10.8	9.2	.6	.0	.0	20.9	.3	6.5	19.5	5.0	.0	.0	33.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.7	.0	.0	.0	.0	.5	.0	.2	.0	.0	.0	.0	.3
1-2	.0	.6	2.1	.0	.0	.0	2.8	.0	.1	.5	.0	.0	.0	.6
3-4	.0	.3	1.4	.3	.0	.0	2.3	.0	.3	.2	.0	.0	.0	.4
5-6	.0	.0	1.8	.6	.0	.0	2.7	.0	.0	.0	.0	.0	.0	.1
7	.0	.0	.1	.3	.0	.0	.4	.0	.0	.0	.0	.0	.0	.2
8-9	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.2	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0
12	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.9	5.6	1.4	.0	.0	9.1	.0	.7	.9	.6	.0	.0	2.2

PERIOD: (OVER-ALL) 1963-1970

JULY

AREA 0008 YAKU SHIMA
29.9N 129.9E

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)							TOT OBS
	0-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	3.4	5.5	.7	.0	.0	.0	9.6	586
1-2	.7	19.3	13.3	.0	.0	.0	31.3	
3-4	.0	10.6	18.4	2.4	.0	.0	31.4	
5-6	.0	2.6	10.1	1.4	.0	.0	14.0	
7	.0	.7	3.6	3.6	.0	.0	7.8	
8-9	.0	.2	.2	1.2	.0	.0	1.5	
10-11	.0	.0	.0	.2	.0	.0	1.2	
12	.0	.0	.2	.9	.2	.0	1.2	
13-16	.0	.0	.2	.2	.5	.0	.9	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.2	.0	.2	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.1	38.7	46.6	9.7	.9	.0	100.0	

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.9	15.1	17.6	5.9	2.7	.9	.2	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	407	3
6-7	.0	2.0	9.2	9.2	3.7	1.6	.3	.2	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	240	5
8-9	.0	.5	1.9	2.3	2.8	.8	.3	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	83	6
10-11	.0	.2	.5	.9	.7	.5	.2	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	29	7
12-13	.0	.0	.3	.1	.1	.0	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	7
>13	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	3	14
INDET	4.1	3.5	3.3	1.0	.6	.1	.0	.0	.3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	115	3
TOTAL	62	189	291	172	94	34	12	12	19	1	1	1	1	0	0	0	0	0	0	888	4
PCT	7.0	21.3	32.8	19.4	10.6	3.8	1.4	1.4	2.1	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1865-1970

AUGUST

AREA 0008 YAKU SHIMA
29.0N 129.0E

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHR	DRZL	PRECIPITATION TYPE				HAIL	PCT FREQ PCPN AT OB TIME	TOTAL PCPN OBS	THOR LYNG	OTHER WEATHER PHENOMENA						TOTAL OBS
				FRZG PCPN	SNOW PCPN	OTHER PCPN	PRZN PCPN					FOG PCPN	SMOKE WD	HAZE PCPN	BLWG PCPN	DUST SNOW	SIG WEA	
N	.6	.1	.0	.0	.0	.0	.0	.0	.7		.1	.2	.2	.2	.0	.0	4.8	
NE	.3	.3	.1	.0	.0	.0	.0	.0	.7		.1	.2	.2	.2	.0	.0	9.7	
E	.5	.3	.1	.0	.0	.0	.0	.0	1.0		.2	.4	.3	.3	.0	.0	19.2	
SE	.4	.2	.1	.0	.0	.0	.0	.0	.7		.2	.1	.0	.0	.0	.0	10.1	
S	.4	.3	.4	.0	.0	.0	.0	.0	1.2		.2	.4	.0	.0	.0	.0	11.3	
SW	.7	.3	.2	.0	.0	.0	.0	.0	.5		.4	.1	.1	.1	.0	.0	13.2	
W	.3	.1	.0	.0	.0	.0	.0	.0	.5		.1	.1	.1	.1	.0	.0	8.8	
NW	.3	.1	.1	.0	.0	.0	.0	.0	.5		.1	.1	.1	.1	.0	.0	6.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0		.1	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0		.1	.0	.0	.0	.0	.0	2.2	
TOT OBS	88	44	13	0	0	0	0	0	.0	145	.25	.20	.19	.4	.0	.1	233	2460
TOT PCT	3.6	1.8	.5	.0	.0	.0	.0	.0	5.9		1.0	.8	.8	.8	.0	.0	91.6	

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN SHR	RAIN SHR	DRZL	PRECIPITATION TYPE				HAIL	PCT FREQ PCPN AT OB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS	
				FRZG PCPN	SNOW PCPN	OTHER PCPN	PRZN PCPN					FOG WD	SMOKE HAZE	BLWG PCPN	DUST SNOW	SIG WEA		
0003	3.4	2.0	1.0	.0	.0	.0	.0	.0	6.5		.3	.8	.8	.8	.0	.0	91.7	
0609	3.1	2.0	.3	.0	.0	.0	.0	.0	5.4		.0	.5	1.1	.4	.0	.0	93.0	
1215	3.4	1.7	.4	.0	.0	.0	.0	.1	5.7		1.7	1.0	.4	.4	.1	.1	91.2	
1821	4.6	1.7	.3	.0	.0	.0	.0	.0	6.6	151	2.6	1.0	1.0	1.0	.0	.0	89.3	
TOT	91	46	13	0	0	0	0	1	6.0		.30	.21	.21	.21	.1	.1	2292	2311
PCT	3.6	1.8	.5	.0	.0	.0	.0	.0	6.0		1.2	.8	.8	.8	.0	.0	91.3	

AUGUST

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1865-1970AREA 0008 YAKU SHIMA
29.9N 129.9E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)					
	0-3	4-10	11-21	22-33	34-47	48+	00	03	06	09				12	15	18	21		
N	.6	2.9	1.5	.4	.3	.1		5.8	5.4	5.1	4.1	5.7	5.8	7.7	6.0				
NE	1.2	4.6	3.4	1.3	.3	*		9.4	12.3	10.9	8.9	14.1	9.7	9.4	11.3				
E	1.0	8.8	8.2	2.3	.6	.0		23.0	21.7	22.0	21.9	19.7	20.0	16.1	21.3				
SE	.9	7.9	6.9	1.3	.4	.0		16.3	16.3	17.3	17.9	16.1	18.1	20.1	14.0				
S	1.2	5.7	4.3	.9	.2	.1		11.3	12.3	12.3	11.7	12.7	12.7	11.1	12.0				
SW	1.3	7.6	5.1	.8	.1	*		13.3	13.8	12.4	17.2	17.2	17.2	14.4	16.0				
W	1.1	5.0	2.2	.9	.1	.1		9.9	9.0	11.3	9.1	11.2	8.8	7.6	8.4				
NW	.7	3.8	1.6	.4	*	.0		8.0	6.0	6.6	6.5	6.6	4.3	8.0	7.2				
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0				
CALM	2.4	13.7	9.0	23.5	57	7	2836	3.0	1.0	2.1	2.7	2.3	2.4	3.6	1.1				
TOT OBS	290	33.1		8.3	2.0	.2		331	403	287	364	304	491	288	348				
TOT PCT	10.2	46.1		6.3	2.0	.2		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-6	7-16	17-27	28-40	00					03	06	09	12	15	18	21
N	2.2	2.3	.7	.3	.1		5.7	11.6	5.6	5.6	4.3	4.3	5.7	5.7	6.7	
NE	3.3	4.5	2.4	.5	*		10.7	12.1	11.0	11.0	9.8	9.8	11.4	11.4	10.4	
E	4.5	10.5	4.6	1.2	.1		20.8	13.0	22.2	22.2	22.0	22.0	19.9	19.9	17.8	
SE	3.9	9.1	3.5	.7	.1		17.3	12.2	16.4	16.4	17.7	17.7	17.4	17.4	17.8	
S	3.6	6.2	2.1	.4	.1		12.3	11.5	11.9	11.9	11.9	11.9	13.4	13.4	12.0	
SW	4.6	7.6	2.5	.2	.1		13.0	10.7	14.7	14.7	15.1	15.1	14.9	13.3	13.3	
W	3.3	4.4	1.2	.4	.1		9.4	10.7	9.4	9.4	10.1	10.1	9.8	8.0	7.5	
NW	2.4	3.3	.6	.2	*		6.5	9.6	6.9	6.9	6.6	6.6	5.2	5.2	7.5	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.4	13.7	497	108	18	2836	2.4	11.4	1.9	1.9	2.1	2.7	2.3	2.4	3.6	
TOT OBS	860	47.7	17.5	3.8	.6		100.0		734	734	651	651	793	793	656	
TOT PCT	30.3	47.7	17.5	3.8	.6		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0003	1.9	6.7	44.8	35.6	8.4	2.6	.0	11.9	100.0	734
0609	2.5	6.9	43.9	36.6	7.8	2.2	.2	11.6	100.0	631
1215	2.4	9.3	46.0	30.9	8.9	1.8	.6	11.3	100.0	795
1821	3.0	8.1	49.7	29.7	7.8	1.5	.2	10.8	100.0	636
TOT	69	221	1307	940	235	57	7	11.4		2836
PCT	2.4	7.8	46.1	33.1	8.3	2.0	.2		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	TOTAL CLOUD AMOUNT (EIGHTHS)						TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8-6	OBSCD	10-100		
N	1.8	1.4	1.5	1.0			4.3	
NE	4.1	3.0	3.0	1.3			3.9	
E	4.4	4.9	6.3	3.9			4.7	
SE	5.0	5.1	5.9	1.4			4.1	
S	3.3	3.7	3.7	1.9			4.3	
SW	3.1	3.2	4.2	1.9			4.5	
W	3.8	2.6	2.4	1.9			4.1	
NW	2.4	2.2	1.7	.9			3.9	
VAR	.0	.0	.0	.0			.0	
CALM	2.7	.3	.3	.1			1.6	
TOT OBS	312	269	297	147			4.2	
TOT PCT	30.4	26.2	29.0	14.3			102.9	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/MH >4/8)
AND OCCURRENCE OF NH <9/8 BY WIND DIRECTION

WIND DIR	CEILING HEIGHTS (FT/MH >4/8)												NH <9/8 ANY HGT OBS	TOTAL OBS
	0-2	3-4	5-7	8-6	OBSCD	10-100	100-199	200-299	300-399	400-499	500-599	600-699		
N	1.8	1.4	1.5	1.0									.0	4.1
NE	4.1	3.0	3.0	1.3									.0	8.8
E	4.4	4.9	6.3	3.9									.0	13.3
SE	5.0	5.1	5.9	1.4									.0	13.1
S	3.3	3.7	3.7	1.9									.0	9.4
SW	3.1	3.2	4.2	1.9									.0	8.8
W	3.8	2.6	2.4	1.9									.0	7.8
NW	2.4	2.2	1.7	.9									.0	5.8
VAR	.0	.0	.0	.0									.0	.0
CALM	2.7	.3	.3	.1									.0	3.2
TOT OBS	312	269	297	147									.0	1029
TOT PCT	30.4	26.2	29.0	14.3									.0	74.3

PERIOD: (PRIMARY) 1934-1970
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TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)		OR		OR		OR		OR	
	= OR	>10	= OR	>5	= OR	>2	= OR	>1	= OR	>1/2
= OR >6500	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2
= OR >5000	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3
= OR >3500	.9	.9	.9	.9	.9	.9	.9	.9	.9	.9
= OR >2000	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
= OR >1000	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4
= OR >600	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7
= OR >300	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9
= OR >150	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9
= OR > 0	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9
TOTAL	143	143	143	143	143	143	143	143	143	143

TOTAL NUMBER OF OBS: 1031

PCT FREQ NH <5/8: 74.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL
	7.7	14.7	23.5	17.2	10.7	6.3	6.2	5.2	7.9	.7	1069

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	.1	*	*	*	.0	.1	.0	.0	.0	.0	.3	
NO PCP	*	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
TOT %	.1	*	*	*	.0	.1	.0	.0	.0	.0	.3	
PCP	.2	*	.2	.1	.0	.1	.0	.1	.0	.0	.7	
NO PCP	*	*	.1	.0	*	.0	*	.0	.0	.0	.3	
TOT %	.2	.1	.3	.1	*	.1	*	.1	.0	.0	.9	
PCP	.1	.1	.0	.0	*	.1	*	.1	.0	.0	.4	
NO PCP	*	*	.2	.0	.1	.1	.0	.0	.0	.0	.4	
TOT %	.1	.1	.2	.0	.1	.2	*	.1	.0	.0	.8	
PCP	.2	.2	.3	.1	.3	.4	*	.0	.0	.0	1.5	
NO PCP	.1	.4	.4	.3	.1	.4	.2	*	.0	*	1.9	
TOT %	.3	.6	.6	.4	.3	.8	.3	*	.0	*	3.4	
PCP	.1	.2	.3	.3	.3	.4	.2	.2	.0	.0	2.0	
NO PCP	1.2	2.5	3.6	3.3	1.9	2.5	1.8	1.3	.0	.2	18.4	
TOT %	1.3	2.7	3.9	3.6	2.2	2.9	2.0	1.5	.0	.2	20.4	
PCP	*	.1	.2	.1	.1	.2	.2	.2	.0	.0	1.1	
NO PCP	3.8	7.2	15.4	12.9	9.5	10.4	6.9	5.0	.0	.0	73.1	
TOT %	3.8	7.3	15.6	13.0	9.6	10.6	7.1	5.2	.0	2.1	74.2	
TOT OBS	5.8	10.8	20.7	17.1	12.3	14.7	9.4	6.8	.0	2.4	100.0	2498
TOT PCT												

PERIOD: (PRIMARY) 1934-1970
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TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1
2<5	0-3	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1
	4-10	.1	.2	.2	.2	.1	.2	.1	.0	.0	.0	.1	.5
	11-21	.0	.3	.3	.3	.2	.3	.2	.0	.0	.0	.1	.1
	22+	.1	.3	.4	.2	.2	.3	.2	.0	.0	.0	.1	.1
	TOT %	.3	.9	.9	.8	.6	1.1	.4	.1	.0	.0	.1	.5
5<10	0-3	.0	.2	.2	.1	.0	.1	.1	.1	.0	.0	.2	1.0
	4-10	.6	.7	1.1	1.0	.7	1.4	.7	.6	.0	.0	.2	6.8
	11-21	.4	1.2	1.6	1.8	.9	1.2	.5	.4	.0	.0	.2	8.0
	22+	.2	.6	.9	.5	.5	.2	.3	.3	.0	.0	.2	3.7
	TOT %	1.2	2.6	3.7	3.4	2.1	2.9	1.9	1.4	.0	.0	.2	19.5
10+	0-3	.4	.8	.8	.7	1.1	.9	.9	.5	.0	.0	.2	8.5
	4-10	2.1	3.6	7.3	6.7	4.8	6.0	4.1	3.2	.0	.0	.2	37.7
	11-21	.8	2.0	5.8	4.6	3.3	3.4	1.7	1.1	.0	.0	.2	22.6
	22+	.3	.6	1.2	.8	.3	.3	.4	.2	.0	.0	.2	4.0
	TOT %	3.7	6.9	15.1	12.7	9.5	10.5	7.1	5.0	.0	.0	.2	72.8
TOT OBS													2615
TOT PCT		5.7	10.6	20.3	17.3	12.5	14.9	9.4	6.7	.0	.0	2.6	100.0

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	350 999	400 1999	450 3499	500 4999	550 6499	600 7999	6500+	TOTAL	NH <5/8 ANY HGT.	TOTAL OBS
00003	.0	1.4	.7	5.9	9.4	5.2	1.4	.0	.0	.0	24.0	76.0	288
06009	.0	.0	.8	7.2	10.9	7.9	.8	.0	.0	.0	27.5	72.5	265
12015	.4	.4	2.7	6.4	9.8	4.5	1.5	.0	.8	.0	26.5	73.5	264
18021	.0	.0	2.1	8.8	7.9	3.8	.8	.4	.0	.0	23.8	76.3	240
TOT PCT	1 .1	5 .5	16 1.5	74 7.0	101 9.6	57 5.4	12 1.1	2 .1	2 .2	0 .0	269 25.4	788 74.6	1057 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.7	2.5	1.1	3.2	10.5	82.1	285
06009	.8	.4	.0	4.6	17.4	76.8	259
12015	.4	.4	1.2	5.8	17.8	74.4	258
18021	.9	2.1	.0	5.5	14.5	77.0	235
TOT PCT	7 .7	14 1.4	6 .6	49 4.7	153 14.9	806 77.7	1037 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.7	4.2	11.6	14.4	74.0	285
06009	.4	1.5	12.0	17.0	71.0	259
12015	1.2	4.3	14.3	15.9	69.8	258
18021	.9	5.1	16.6	10.2	73.2	235
TOT PCT	8 .8	39 3.8	140 13.5	150 14.5	747 72.0	1037 100.0

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TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100				
95/99	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	2	.2
90/94	.0	.0	.0	.0	1.0	.9	.2	.1			20	2.2
85/89	.0	.0	.0	.1	1.6	9.6	8.2	1.0			190	20.6
80/84	.0	.0	.0	.0	1.5	13.3	42.6	15.4			672	72.8
75/79	.0	.0	.0	.0	.0	.2	1.1	2.9			39	4.2
TOTAL	0	0	0	1	40	222	481	179			923	100.0
PCT	.0	.0	.0	.1	4.3	24.1	52.1	19.4				

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP												
N	NE	E	SE	S	SW	W	NW	VAR	CALM			
.0	.1	.0	.0	.0	.0	.0	.1	.0	.0			
.3	.5	.1	.2	.0	.3	.5	.2	.0	.0			
1.0	2.7	4.6	3.7	2.3	2.4	1.5	1.9	.0	.0			
5.0	7.4	13.6	12.9	9.3	9.3	7.8	5.0	.0	.0			
.3	.2	.1	.3	.5	1.2	.8	.7	.0	.0			
6.6	10.9	18.4	17.1	12.1	13.2	10.5	7.9	.0	.0			

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR											
HOUR (GMT)	MAX	99%	95%	50%	5%	1%	M-N	MEAN	TOTAL OBS		
00003	92	89	88	83	79	75	72	83.2	727		
06009	95	93	88	84	79	75	75	83.7	648		
12015	91	86	85	82	79	75	72	81.8	813		
18021	91	86	84	82	77	75	72	81.3	661		
TOT	95	90	87	82	78	75	72	82.5	2849		

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR											
HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS			
00003	.0	.4	2.8	30.0	51.2	15.6	82	250			
06009	.0	.0	12.0	36.0	41.8	10.2	79	225			
12015	.0	.0	1.3	16.3	57.3	25.1	85	239			
18021	.0	.0	1.4	13.4	58.5	26.7	85	217			
TOT	0	1	40	224	486	180	83	931			

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FUS (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	82 85	89 92	99 102	TOT	N 100	NO 100
14/16	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
11/13	.0	.0	.0	.0	.1	.1	.1	11	.0	.3
9/10	.0	.0	.0	.2	.3	.1	.1	10	.0	.7
7/8	.0	.0	.0	.0	.2	.2	.1	11	.0	.7
6	.0	.0	.0	.5	1.0	.4	.0	47	.0	.8
5	.0	.0	.3	2.6	2.5	.1	.0	137	.0	2.0
4	.0	.0	.0	.8	2.0	.3	.1	43	.0	3.7
3	.0	.1	.3	1.2	2.7	.2	.0	245	.3	1.9
2	.0	.1	.1	4.2	1.9	.0	.0	148	.2	14.3
1	.0	.1	2.2	23.2	2.3	.0	.0	661	.2	27.7
0	.0	.1	.8	6.5	1.0	.0	.0	196	.1	14.2
-1	.0	.3	4.3	13.1	.3	.0	.0	434	.1	18.2
-2	.0	.3	.6	3.2	.3	.0	.0	98	.0	4.1
-3	.0	.2	2.6	2.8	.1	.0	.0	131	.0	3.3
-4	.0	.3	.9	.3	.0	.0	.0	48	.0	2.0
-5	.0	.0	.5	.3	.0	.0	.0	20	.0	.8
-6	.0	.0	.1	.2	.0	.0	.0	13	.0	.3
-7/-8	.0	.1	.2	.2	.0	.0	.0	2	.0	.1
-9/-10	.0	.0	.0	.0	.0	.0	.0	2	.0	.1
-11/-13	.1	.0	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	3	35	303	1657	331	34	8	2379	28	235
PCT	.2	1.5	12.8	69.8	13.9	1.4	.3	100.0	.8	99.2

PERIOD: (OVER-ALL) 1963-1970 AUGUST AREA 0008 YAKU SHIMA
29.9N 129.9E

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N										NE										PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT							
<1	.2	1.1	.0	.0	.0	.0	1.3	.2	1.9	.4	.0	.0	.0	2.5							
1-2	.0	.5	.8	.0	.0	.0	1.3	.0	1.7	.8	.0	.0	.0	2.5							
3-4	.0	.8	.4	.1	.0	.0	1.3	.0	1.3	1.3	.5	.0	.0	3.1							
5-6	.0	.0	.8	.0	.0	.0	.8	.0	.4	.6	.1	.0	.0	1.0							
7	.0	.0	.4	.1	.0	.1	.6	.0	.0	.6	.5	.2	.0	1.3							
8-9	.0	.0	.3	.4	.1	.1	.9	.0	.0	.3	.2	.2	.0	.7							
10-11	.0	.0	.0	.1	.2	.0	.3	.0	.0	.0	.2	.0	.0	.2							
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0							
13-16	.0	.0	.0	.0	.5	.0	.5	.0	.0	.0	.0	.3	.0	.3							
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
20-22	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.2	.0	.2							
23-25	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0							
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
TOT PCT	.2	2.4	2.6	.9	1.1	.3	7.5	.2	5.3	3.9	1.4	1.0	.1	11.9							

HGT	E										SE										PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT							
<1	.0	1.2	.1	.0	.0	.0	1.4	.2	1.4	.0	.0	.0	.0	1.6							
1-2	.1	3.0	1.4	.0	.0	.0	4.6	.0	3.3	1.1	.0	.0	.0	4.4							
3-4	.0	1.4	4.5	.4	.0	.0	6.2	.0	2.6	2.8	.0	.0	.0	5.4							
5-6	.0	.3	1.9	.5	.2	.0	2.9	.0	.2	.8	.5	.0	.0	1.6							
7	.0	.0	.5	1.1	.0	.0	1.6	.0	.0	.8	.8	.0	.0	1.6							
8-9	.0	.0	.0	1.3	.0	.0	1.3	.0	.0	.4	.3	.0	.0	.7							
10-11	.0	.0	.0	.5	1.4	.0	1.9	.0	.0	.0	.0	.0	.0	.0							
12	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0							
13-16	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.4	.0	.4							
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
20-22	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0							
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
TOT PCT	.1	5.9	8.5	3.9	1.9	.0	20.4	.2	7.6	5.8	1.7	.4	.0	15.7							

PERIOD: (OVER-ALL) 1963-1970

AUGUST

AREA 0008, YAKU SHIMA
29.9N 129.9E

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S										SW										PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	.5	.0	.0	.0	.0	1.5	.1	1.6	.0	.0	.0	.0	1.7	.1	1.6	.0	.0	.0	.0	1.7
1-2	.2	1.3	1.3	.0	.0	.0	3.0	.2	2.5	1.0	.0	.0	.0	1.7	.2	2.5	1.0	.0	.0	.0	1.7
3-4	.2	1.3	2.5	.1	.0	.0	4.2	.0	1.0	3.3	.2	.0	.0	4.4	.0	1.0	3.3	.2	.0	.0	4.4
5-6	.0	.2	.3	.2	.2	.0	.9	.0	.2	.9	.6	.0	.0	1.7	.0	.2	.9	.6	.0	.0	1.7
7	.0	.0	.7	.0	.0	.0	.7	.0	.0	.5	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	.5
8-9	.0	.0	.2	.0	.0	.0	.2	.0	.2	.2	.2	.2	.0	.6	.0	.2	.2	.2	.2	.0	.6
10-11	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	.5	.0	.0	.5
12	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.4	.0	.0	.4
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.4	3.6	5.2	.3	.4	.0	10.8	.3	5.5	5.9	1.8	.2	.0	13.6	.3	5.5	5.9	1.8	.2	.0	13.6

HGT	W										NW										PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.5	.0	.0	.0	.0	.9	.3	.7	.0	.0	.0	.0	1.0	.3	.7	.0	.0	.0	.0	1.0
1-2	.1	2.3	1.3	.0	.0	.0	3.7	.2	2.5	1.1	.0	.0	.0	3.8	.2	2.5	1.1	.0	.0	.0	3.8
3-4	.0	1.1	.6	.4	.0	.0	2.1	.0	.9	.7	.0	.0	.0	1.6	.0	.9	.7	.0	.0	.0	1.6
5-6	.0	.0	.5	.8	.0	.0	1.4	.0	.0	.6	.2	.0	.0	.6	.0	.0	.6	.2	.0	.0	.6
7	.0	.0	.2	.2	.0	.0	.4	.0	.0	.2	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.3	.5	.0	.0	.8	.0	.0	.0	.2	.0	.0	.2	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.2	.1	.4	.0	.0	.7	.0	.0	.4	.2	.0	.0	.3	.0	.0	.2	.0	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.0	.0	.1	.0	.0	.0	.1
13-16	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	4.0	3.0	2.7	.0	.0	10.3	.5	4.1	2.6	.7	.2	.0	7.9	.5	4.1	2.6	.7	.2	.0	7.9

PERIOD: (OVER-ALL) 1963-1970

AUGUST

AREA 0008 YAKU SHIMA
29.9N 129.9E

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)							TOT OBS
	0-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	5.5	8.9	.5	.0	.0	.0	15.0	559
1-2	.9	17.2	8.6	.0	.0	.0	26.7	
3-4	.2	10.2	15.7	1.8	.0	.0	27.9	
5-6	.0	1.3	6.4	2.7	.4	.0	10.7	
7	.0	.0	3.8	2.7	.2	.2	6.8	
8-9	.0	.2	1.6	2.9	.2	.2	5.4	
10-11	.0	.2	.2	2.0	1.8	.0	4.1	
12	.0	.0	.2	.5	.2	.0	.9	
13-16	.0	.0	.0	.7	1.1	.0	1.8	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.5	.0	.5	
23-25	.0	.0	.0	.0	.2	.0	.2	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.6	37.9	37.0	13.2	4.8	.4	100.0	

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.4	16.2	17.5	4.6	.8	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	369	3
6-7	.1	.8	8.6	7.3	2.5	.9	.9	1.1	.8	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	199	5
8-9	.0	.5	1.4	1.4	3.4	1.7	1.1	.1	.7	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	192	8
10-11	.0	.1	.6	.8	.9	1.4	.6	.5	.6	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	49	8
12-13	.0	.0	.4	.1	.0	.2	.1	.4	.4	.0	.1	.1	1.1	.0	.0	.0	.0	.0	.0	24	16
>13	.0	.0	.0	.2	.0	.0	.1	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	11
INDET	6.8	1.8	2.1	1.1	.0	.0	.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	104	2
TOTAL	87	164	259	132	65	45	28	18	24	4	7	2	9	.0	.0	.0	.0	.0	.0	844	5
PCT	10.3	19.4	30.7	15.6	7.7	5.3	3.3	2.1	2.8	.5	.8	.2	1.1	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1857-1970

AREA 008 YAKU SHIMA
29.9N 129.9E

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT OB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA						TOTAL OBS
				PCPN	FRZG	SNOW	OTHER PCPN				PCPN	FOG	SMOKE	DUST	NO BLWG	SIG WEA	
N	.4		.1	.0	.0	.0	.0	.0	.6	.0	#	#	.2	.0	.0	12.4	
NE	1.5	.5	.2	.0	.0	.0	.0	2.2	2.2	.2	.1	.2	.1	.0	.0	17.8	
E	1.0	.4	.2	.0	.0	.0	.0	1.6	1.6	.2	.1	#	#	.0	.0	17.9	
SE	.7	.1	.5	.0	.0	.0	.0	1.0	1.0	.1	.0	#	#	.0	.0	10.7	
S	.6	.3	.2	.0	.0	.0	.0	.9	.9	.2	.0	.1	.0	.0	.0	7.7	
SW	.5	.2	.1	.0	.0	.0	.0	.7	.7	.2	#	#	#	.0	.0	7.4	
W	.3	.2	.1	.0	.0	.0	.0	.5	.5	.1	.1	#	#	.0	.0	5.8	
NW	.4	.2	#	.0	.0	.0	.0	.6	.6	#	.1	.1	.1	.0	.0	8.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	
CALM	#	.0	.0	.0	.0	.0	.0	#	#	.0	.0	.0	.0	.0	.0	1.5	
TOT OBS	140	48	35	0	0	0	0	0	207	26	10	14	0	0	0	2287	2539
TOT PCT	5.5	1.9	1.4	.0	.0	.0	.0	8.2	8.2	1.0	.4	.6	.0	.0	.0	90.1	

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT OB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA						TOTAL OBS
				PCPN	FRZG	SNOW	OTHER PCPN				PCPN	FOG	SMOKE	DUST	NO BLWG	SIG WEA	
0003	5.5	2.8	1.2	.0	.0	.0	.0	9.1	9.1	.2	.5	1.2	.2	.0	.0	89.2	
0609	6.3	2.9	1.7	.0	.0	.0	.0	9.7	9.7	.2	.2	.2	.2	.0	.0	89.9	
1215	5.0	1.2	1.0	.0	.0	.0	.0	6.9	6.9	1.8	.7	.7	.7	.0	.0	90.0	
1821	5.4	.9	1.5	.0	.0	.0	.0	7.2	7.2	1.8	.2	.2	.2	.0	.0	90.9	
TOT	142	49	35	0	0	0	0	210	210	26	10	15	0	0	0	2313	2569
PCT	5.5	1.9	1.4	.0	.0	.0	.0	8.2	8.2	1.0	.4	.6	.0	.0	.0	90.0	

SEPTEMBER

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1857-1970

AREA 0008 YAKU SHIMA
29.9N 129.9E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.9	5.1	5.6	1.5	.3	.0	13.4	12.9	15.7	13.1	14.2	16.2	11.3	10.9	10.7	13.6	13.6
NE	1.2	8.5	8.0	2.4	.3	*	20.5	13.0	21.0	21.3	22.0	19.0	22.2	18.8	22.1	18.3	18.3
E	1.0	8.1	8.7	1.8	.2	*	19.9	12.7	17.7	17.9	18.8	21.4	23.8	21.8	20.7	17.5	17.5
SE	.7	5.1	4.1	.8	.1	.2	11.8	12.0	12.2	12.0	9.4	9.2	13.1	12.3	13.2	11.8	11.8
S	.7	4.2	3.0	.4	*	.1	8.6	11.2	8.5	9.9	10.5	7.1	6.9	10.0	7.6	7.5	7.5
SW	.6	3.8	3.0	.5	*	.0	7.9	10.8	8.3	6.7	6.4	9.7	7.2	8.1	7.8	6.7	6.7
W	.5	3.1	1.8	.7	.1	*	6.3	11.3	6.6	6.8	7.3	6.2	5.9	5.6	6.2	6.0	6.0
NW	.6	4.4	3.5	1.0	.2	.0	9.8	12.5	7.8	11.3	9.1	10.4	6.7	11.0	7.8	12.7	12.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.8	1266	1102	264	41	14	2923	.0	1.1	.9	2.3	.9	3.9	1.5	3.9	1.8	1.8
TOT OBS	236	43.3	37.7	9.0	1.4	.5	100.0	12.1	354	430	300	344	308	476	390	381	381
TOT PCT	6.1								100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-6	7-16	17-27	28-40	41+				00	03	06	09	12	15	18	21
N	3.1	6.6	3.1	.6	*	13.4	12.9	15.7	14.3	15.3	11.1	13.3	19.0	13.0	18.3	13.6
NE	4.7	9.5	5.2	1.1	.1	20.5	13.0	21.0	21.2	20.4	20.1	20.1	20.1	20.1	20.1	20.1
E	4.7	9.7	4.6	.8	.1	19.9	12.7	17.7	17.8	20.2	22.6	12.4	19.0	19.0	19.0	19.0
SE	3.3	5.8	2.2	.2	.3	11.8	12.0	12.2	12.6	9.3	12.6	12.6	12.6	12.6	12.6	12.6
S	2.8	4.2	1.2	.2	.2	8.6	11.2	8.5	9.2	8.7	8.8	7.9	7.9	7.9	7.9	7.9
SW	2.2	4.2	1.3	.1	.0	7.9	10.8	8.3	7.5	8.2	7.7	6.1	6.1	6.1	6.1	6.1
W	2.2	3.0	.8	.3	*	6.3	11.3	6.6	6.7	6.7	5.7	5.7	5.7	5.7	5.7	5.7
NW	2.2	5.2	1.7	.6	*	9.8	12.5	7.8	9.7	9.8	9.3	10.4	10.4	10.4	10.4	10.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.8	1409	589	115	21	2923	1.8	12.1	1.0	1.6	2.0	2.8	2.8	2.8	2.8	2.8
TOT OBS	789	48.2	20.2	3.9	.7	100.0	100.0	12.1	784	644	784	711	711	711	711	711
TOT PCT	27.0								100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1957-1970

AREA 0008 YAKU SHIMA
29.9N 129.9E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GHT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
0003	1.0	6.1	45.2	36.6	8.4	2.0	.6	12.2	100.0	784
0609	1.6	5.0	41.1	39.3	11.2	1.6	.3	12.6	100.0	644
1215	2.0	7.1	41.1	39.4	8.7	1.3	.4	12.1	100.0	784
1821	2.8	6.5	45.7	35.6	8.2	.7	.6	11.4	100.0	711
TOT	54	182	1266	1102	264	41	14	12.1		2923
PCT	1.8	6.2	43.3	37.7	9.0	1.4	.5	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-6	TOTAL OBS	MEAN CLOUD COVER
N	3.6	3.1	4.1	2.1		4.4
NE	4.8	3.8	5.3	6.0		4.9
E	5.5	4.9	6.0	4.9		4.6
SE	3.7	2.6	4.0	1.8		4.4
S	2.3	1.7	2.7	1.3		4.5
SW	3.2	1.6	3.0	.7		4.0
W	2.3	1.4	2.4	1.3		4.5
NW	2.4	1.5	2.4	1.1		4.4
VAR	.0	.0	.0	.0		.0
CALM	1.2	.7	.6	.2		3.4
TOT OBS	302	223	316	201	1042	4.5
TOT PCT	29.0	21.4	30.3	19.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT.) NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	149	150	299	300	300	599	600	999	1000	2000	3499	4999	5000	6499	7999	8000+	NH <5/8	ANY HGT	TOTAL OBS
N	.1	.0	.0	.0	.5	.5	.7	.9	2.1	2.8	1.0	.9	.2	.0	.0	.1	.1	.1	.2	8.9
NE	.4	.1	.1	.0	.7	.7	.5	1.8	1.8	3.5	1.2	.4	.1	.1	.1	.1	.1	.1	.2	12.4
E	.0	.0	.0	.0	.5	.5	.5	.5	.5	1.7	.7	.1	.0	.0	.0	.0	.0	.0	.1	13.6
SE	.1	.0	.0	.0	.0	.0	.0	.5	.5	.8	.5	.3	.0	.0	.0	.0	.0	.0	.0	8.8
S	.1	.0	.0	.0	.1	.1	.0	.3	.3	.8	.6	.1	.0	.0	.0	.0	.0	.0	.1	6.5
SW	.0	.0	.0	.0	.0	.0	.2	.1	.1	.9	.2	.1	.1	.1	.1	.0	.0	.0	.0	6.0
W	.0	.0	.0	.0	.1	.1	.1	.9	.9	.9	.4	.0	.0	.0	.0	.0	.0	.0	.0	5.2
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.1	.1	.3	.0	.0	.1	.2	.1	.3	.0	.0	.0	2.1
TOT OBS	7	1	1	21	21	21	21	76	76	132	58	19	15	15	15	15	15	15	15	1042
TOT PCT	.7	.1	.1	2.0	2.0	2.0	2.0	7.3	7.3	12.7	5.6	1.4	.2	.2	.2	.3	.6	.6	.6	100.0

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1857-1970

SEPTEMBER

AREA 0008 YAKU SHIMA
29.9N 129.9E

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	VSBY (NM) = OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.7	.9	.9	.9	.9	.9	.9	.9
= OR >5000	.9	1.1	1.1	1.1	1.1	1.1	1.1	1.1
= OR >3500	2.1	2.5	2.5	2.5	2.5	2.5	2.5	2.5
= OR >2000	6.2	7.8	8.0	8.0	8.0	8.0	8.0	8.0
= OR >1000	14.0	19.6	20.5	20.5	20.5	20.7	20.7	20.7
= OR >600	16.6	25.1	27.0	27.3	27.6	27.8	27.8	27.8
= OR >300	17.1	26.1	28.6	29.2	29.5	29.8	29.8	29.8
= OR >150	17.2	26.2	28.7	29.3	29.6	29.9	29.9	29.9
= OR >0	17.2	26.5	29.1	29.8	30.1	30.4	30.7	30.7
TOTAL	180	277	305	312	315	318	321	321

TOTAL NUMBER OF OBS: 1047

PCT FREQ NH <5/8: 69.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	6.8	14.8	24.7	14.5	8.2	6.1	6.6	6.0	11.3	1.0	1122

SEPTEMBER

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1857-1970

AREA 0008 YAKU SHIMA
29.9N 129.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	.2	.2	.1	*	*	*	.1	*	.0	.0	.5	
ND PCP	*	.0	.0	.0	.0	*	*	.0	.0	.0	.1	
TOT %	.1	.2	.1	*	*	.1	.1	*	.0	.0	.6	
PCP	.1	.2	.1	*	*	.0	*	.0	.0	.0	.4	
1/2<1 ND PCP	.0	*	.1	*	*	.0	*	*	.0	.0	.3	
TOT %	.1	.2	.2	*	.1	.0	.1	*	.0	.0	.7	
PCP	.2	.3	.2	*	*	.1	.0	.2	.0	.0	1.0	
1<2 ND PCP	*	.0	.0	.0	.0	.0	*	.0	.0	.0	.1	
TOT %	.2	.3	.2	*	*	.1	*	.2	.0	.0	1.1	
PCP	.2	.4	.4	.2	*	.1	.1	.1	.0	.0	1.5	
2<5 ND PCP	.1	.7	.2	.2	.2	.1	.1	.2	.0	.0	1.8	
TOT %	.2	1.0	.5	.5	.2	.2	.3	.4	.0	.0	3.3	
PCP	.1	.7	.6	.5	.6	.4	.1	.1	.0	.0	3.2	
5<10 ND PCP	2.0	3.8	3.4	2.0	1.5	1.8	1.2	1.5	.0	.2	17.5	
TOT %	2.1	4.6	4.0	2.6	2.1	2.2	1.4	1.6	.0	.2	20.7	
PCP	.1	.3	.3	.2	.2	.1	.1	.1	.0	*	1.5	
10+ ND PCP	10.4	13.7	14.4	8.5	6.2	5.7	4.5	7.3	.0	1.3	72.0	
TOT %	10.5	14.0	14.7	8.7	6.4	5.8	4.6	7.4	.0	1.4	73.6	
TOT OBS	13.1	20.4	19.7	11.8	8.6	8.4	6.5	9.7	.0	1.6	100.0	2536

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1857-1970

SEPTEMBER

AREA 0008 YAKU SHIMA
29.9N 129.9E

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

WSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10+	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS		13.1	20.4	19.8	11.7	8.6	8.2	6.5	9.9	.0	1.7	100.0	2714
TOT PCT		13.1	20.4	19.8	11.7	8.6	8.2	6.5	9.9	.0	1.7	100.0	2714

SEPTEMBER

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1857-1970

AREA 0008 YAKU, SHINA
29.9N 129.9E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.7	.0	1.4	8.4	15.4	5.6	1.4	.0	.4	1.1	34.4	65.6	285
06009	.4	.4	2.6	9.0	11.3	5.6	1.5	.0	.4	.8	32.0	68.0	266
12015	.7	.0	2.6	3.3	9.3	4.4	.4	.0	.4	.0	21.1	78.9	270
18021	1.1	.0	1.1	6.9	12.3	5.4	2.2	.7	.0	.4	30.1	69.9	276
TOT	8	1	21	76	133	58	15	2	3	6	322	774	1097
PCT	.7	.1	1.9	6.9	12.1	5.3	1.4	.2	.3	.5	29.4	70.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	1.1	.0	.7	3.6	19.0	75.5	274
06009	.4	2.0	1.6	3.6	15.0	77.5	253
12015	.8	.0	1.2	3.1	10.9	84.0	256
18021	.0	.0	.4	3.7	17.2	78.7	268
TOT	6	5	10	37	164	829	1051
PCT	.6	.5	1.0	3.5	15.6	78.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	1.1	2.9	13.9	23.0	63.1	274
06009	1.2	5.5	15.4	19.8	64.8	253
12015	1.2	4.3	9.0	14.1	77.0	256
18021	1.1	2.2	11.2	20.9	67.9	268
TOT	12	39	130	203	716	1051
PCT	1.1	3.7	12.4	19.5	68.1	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1857-1970

AREA 0008 YAKU SHIMA
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TABLE 13

		PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL		PCT FREQ
TEMP F		0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100			OBS		
95/99		.0	.0	.0	.1	.2	.0	.0	.0	.0	.0	2	.3	
90/94		.0	.0	.0	.0	.2	.1	.1	.0	.0	.0	4	.4	
85/89		.0	.0	.0	.2	1.3	5.6	3.1	1.2	1.2	1.2	118	11.3	
80/84		.0	.0	.0	1.0	4.5	15.3	26.6	8.2	8.2	5.8	580	55.6	
75/79		.0	.0	.3	.9	7.2	6.5	7.0	5.8			288	27.6	
70/74		.0	.0	.0	.7	1.2	1.2	.8	.7	.7	.2	47	4.5	
65/69		.0	.0	.0	.0	.0	.1	.0	.2	.2	.3	3	.3	
TOTAL		0	0	3	29	152	301	391	167	167	1043	100.0		
PCT		.0	.0	.3	2.8	14.6	28.9	37.5	16.0					

TABLE 14

		PERCENT FREQUENCY OF WIND DIRECTION BY TEMP										TOTAL	
TEMP F		N	NE	E	SE	S	SH	W	NH	VAR	CALM		
95/99		.0	.0	.1	.1	.0	.0	.0	.1	.0	.0	.0	
90/94		.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	
85/89		.8	1.5	2.2	1.9	2.4	1.6	.7	.1	.0	.1	.0	
80/84		5.2	7.9	12.1	9.4	6.4	5.4	4.4	2.7	.0	2.0	.0	
75/79		5.6	9.0	6.1	1.5	1.0	.5	1.2	2.2	.0	.5	.0	
70/74		1.3	1.8	.0	.2	.0	.0	.2	1.0	.0	.0	.0	
65/69		.1	.1	.0	.0	#	#	.0	.0	.0	.0	.0	
TOTAL		13.0	20.4	20.6	13.2	9.9	7.6	6.5	6.2	.0	2.6		

TABLE 15

		MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR										TOTAL	
HOUR (GMT)		MAX	99%	95%	50%	5%	1%	MIN	MEAN			OBS	
00003		96	89	86	81	75	70	64	80.9	772			
06009		96	89	87	81	75	72	65	81.2	646			
12015		88	84	80	80	73	70	68	79.5	791			
18021		91	84	83	79	72	70	68	78.9	713			
TOT		96	88	86	81	73	70	64	80.1	2922			

TABLE 16

		PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR										TOTAL	
HOUR (GMT)		0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN		OBS	
00003		.0	1.7	13.8	28.6	38.6	17.2			80		290	
06009		.0	6.6	17.0	34.4	28.6	13.3			77		241	
12015		.0	3.1	13.7	30.9	39.7	12.6			79		262	
18021		.0	1.2	14.3	22.9	41.5	20.2			82		298	
TOT		0	32	154	306	392	167			80		1051	

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1857-1970

SEPTEMBER

AREA 0008 YAKU SHIMA
29.9N 129.9E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65	69	73	77	81	85	89	92	TOT	W	WD
	68	72	76	80	84	88	92		FOG	FOG	FOG
11/13	.0	.0	.0	.1	.1	*	.0	.1	8	.0	.3
9/10	.0	.0	.0	.0	.1	.1	.0	.0	4	.0	.2
7/6	.0	.0	.0	.2	.4	.2	.2	.0	22	.0	.9
6	.0	.0	.0	.0	*	.3	.1	.0	12	.0	.5
5	.0	.0	.0	.1	.2	.7	.2	.0	30	*	1.2
4	.0	.0	.0	.4	1.5	1.2	.2	.0	79	.1	3.2
3	.0	.0	.0	.1	.7	.7	.0	.0	36	.0	1.5
2	.0	.0	.5	1.1	6.7	1.7	.0	.0	241	.0	10.0
1	.0	.0	*	.7	3.1	.6	.0	.0	108	.0	4.5
0	.0	.2	1.0	4.5	14.6	.9	.0	.0	510	*	21.1
-1	.0	.0	.2	1.8	4.9	.5	.0	.0	178	.0	7.4
-2	*	.2	2.4	10.3	9.3	.2	.0	.0	545	.1	22.5
-3	*	*	.2	3.0	2.1	*	*	.0	132	*	5.4
-4	.0	.5	2.7	5.5	2.0	.0	.0	.0	258	*	10.6
-5	.1	.3	2.3	1.9	.3	.0	.0	.0	118	*	4.8
-6	.0	*	.5	.7	.2	.0	.0	.0	35	.0	1.4
-7/-8	.0	.6	1.3	.7	.1	.0	.0	.0	64	.0	2.7
-9/-10	.0	.5	.5	*	*	.0	.0	.0	26	.0	1.1
-11/-13	.0	.2	.0	.1	.0	.0	.0	.0	8	.0	.3
TOTAL	4	64	282	755	1116	174	16	3	2414	10	2404
PCT	.2	2.7	11.7	31.3	46.2	7.2	.7	.1	100.0	.4	99.6

PERIOD: (OVER-ALL) 1963-1970

SEPTEMBER
TABLE 18

AREA 0008 YAKU SHIMA
29.9N 129.9E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N										NE										
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.5	.0	.0	.0	.0	.8	.5	1.2	.0	.0	.0	.0	1.7	.5	1.2	.0	.0	.0	.0	.0
1-2	.1	2.5	1.3	.0	.0	.0	4.0	.6	3.3	1.0	.0	.0	.0	4.9	.6	3.3	1.0	.0	.0	.0	.0
3-4	.0	1.2	3.4	.7	.0	.0	5.3	#	2.3	2.8	1.0	.0	.0	6.2	.0	2.3	2.8	1.0	.0	.0	.0
5-6	.0	.2	2.1	.1	.0	.0	2.4	.0	.4	3.2	.9	.2	.0	4.7	.0	.4	3.2	.9	.2	.0	.0
7	.0	.0	.6	.2	.0	.0	.8	.0	.2	1.5	.4	.0	.0	2.1	.0	.2	1.5	.4	.0	.0	.0
8-9	.0	.0	.2	.0	.2	.0	.4	.0	.0	.2	.4	#	.0	.6	.0	.0	.2	.4	#	.0	.0
10-11	.0	.0	.0	.4	.0	.0	.4	.0	.0	.2	.4	.0	.0	.6	.0	.0	.2	.4	.0	.0	.0
12	.0	.0	.2	.0	.0	.0	.5	.0	.0	.0	.5	.2	.0	.7	.0	.0	.0	.5	.2	.0	.0
13-16	.0	.0	.0	.3	.2	.0	.5	.0	.0	.0	.3	.4	.0	.6	.0	.0	.0	.3	.4	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	#	.2	.0	.2	.0	.0	.0	#	.2	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.4	.0	.0	.0	.2	.2	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	4.4	7.8	1.7	.4	.0	14.7	1.2	7.3	9.0	4.3	1.1	.0	22.9	1.2	7.3	9.0	4.3	1.1	.0	.0

HGT	E										SE											
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.5	1.0	.0	.0	.0	.0	1.5	.8	.6	.0	.0	.0	.0	1.3	.8	.6	.0	.0	.0	.0	.0	1.3
1-2	.1	2.2	1.6	.0	.0	.0	3.9	.0	2.5	.5	.0	.0	.0	3.0	.0	2.5	.5	.0	.0	.0	.0	3.0
3-4	.1	3.0	4.1	.8	.0	.0	8.1	.0	.3	2.1	.7	.0	.0	3.1	.0	.3	2.1	.7	.0	.0	.0	3.1
5-6	.0	.4	3.2	.0	.4	.0	4.0	.0	#	1.2	#	.0	.0	1.3	.0	#	1.2	#	.0	.0	.0	1.3
7	.0	.0	2.2	.3	.2	.0	2.6	.0	.0	1.2	#	.0	.0	1.3	.0	.0	1.2	#	.0	.0	.0	1.3
8-9	.0	.0	.7	.9	.1	.0	1.7	.0	.0	#	.2	.0	.0	.2	.0	.0	#	.2	.0	.0	.0	.2
10-11	.0	.0	.5	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.2	.0	.0	.2
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	6.6	12.3	2.2	.9	.0	22.8	.8	3.4	5.1	1.0	.2	.0	10.3	.8	3.4	5.1	1.0	.2	.0	.0	10.3

3500 7500 14000

PRALCO (OVERALL) 1969-1971

TABLE 10

AREA 000 YAKU SHIMA
29.9H 129.9E

PLT AREA OF WIND SPEED (KTS) AND DIRECTION VERSUS :EA HEIGHTS (FT)

[illegible][illegible]

OCTOBER

PERIOD: (PRIMARY) 1924-1970
(OVER-ALL) 1956-1970AREA 0008 YAKU SHIMA
29.9N 129.9E

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN SHR	RAIN SHR	ORZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT OB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				FRZG PCPN	SNOW PCPN	OTHER PCPN					PCPN	WD	HAZE	BLWG SNOW	SIG WEA	
N	.4	.2	.2	.0	.0	.0	.0	1.2		.0	.2	.0	.0	.0	24.9	
NE	1.4	.3	.3	.0	.0	.0	.0	2.2		.0	.1	.1	.0	.0	24.8	
E	1.3	.2	.3	.0	.0	.0	.0	2.0		.0	.0	.0	.0	.0	14.6	
SE	.5	.1	.2	.0	.0	.0	.0	.5		.0	.0	.0	.0	.0	6.3	
S	.2	.1	.1	.0	.0	.0	.0	.5		.0	.0	.0	.0	.0	3.1	
SW	.3	.1	.1	.0	.0	.0	.0	.5		.0	.0	.0	.0	.0	1.8	
W	.1	.1	.1	.0	.0	.0	.0	.2		.0	.0	.0	.0	.0	3.3	
NW	.1	.1	.1	.0	.0	.0	.0	.3		.0	.1	.0	.0	.0	11.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
TOT OBS	137	34	41	.0	.0	.0	.0	.0	212	3	13	.0	.0	.0	2522	2755
TOT PCT	5.0	1.2	1.5	.0	.0	.0	.0	7.7		.1	.5	.2	.0	.0	91.5	

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN SHR	RAIN SHR	ORZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT OB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				FRZG PCPN	SNOW PCPN	OTHER PCPN					PCPN	WD	HAZE	BLWG SNOW	SIG WEA	
0000	4.3	1.6	1.1	.0	.0	.0	.0	7.3		.0	.1	.3	.0	.0	92.3	
0600	5.3	1.6	1.1	.0	.0	.0	.0	8.2		.1	.7	.4	.0	.0	90.5	
1200	5.4	1.0	1.2	.0	.0	.0	.0	7.5		.0	.7	.0	.0	.0	91.8	
1800	4.6	1.0	2.6	.0	.0	.0	.0	8.2	215	.3	.3	.2	.0	.0	91.2	2773
TOT	137	37	41	.0	.0	.0	.0	1		3	13	6	.0	.0	2537	
PCT	4.9	1.3	1.5	.0	.0	.0	.0	7.8		.1	.5	.2	.0	.0	91.5	

OCTOBER

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1956-1970AREA 0008 YAKU SHIMA
29.9N 129.9E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)					PCT FREQ	MEAN SPD	HOUR (GMT)					15	16	21
	0-3	4-10	11-21	22-33	34-47			00	03	06	09	12			
N	.6	9.9	11.2	4.1	.5	26.4	14.4	25.9	24.7	28.9	28.3	27.0	25.9	26.3	24.6
NE	.8	9.7	13.3	3.4	.3	27.6	13.8	30.9	29.9	27.8	24.6	30.6	23.3	29.0	26.3
E	.4	6.3	8.5	2.0	.1	17.3	13.5	16.9	17.1	16.1	19.2	17.0	18.2	18.0	16.0
SE	.4	3.0	2.6	.7	#	6.8	12.1	5.1	6.0	4.6	7.4	6.7	9.5	5.2	8.8
S	.4	1.5	1.4	.1	.0	3.5	10.8	2.3	3.4	4.1	4.2	3.5	3.1	2.6	4.5
SW	.2	1.3	.5	.2	#	2.2	11.5	2.0	2.8	1.6	1.8	1.1	2.9	2.6	2.7
W	.3	1.7	.9	.2	.1	3.2	10.9	4.4	2.5	4.7	2.2	2.3	3.0	4.4	2.1
NW	.4	4.6	4.8	1.7	.3	12.0	14.1	12.0	12.3	11.1	11.9	10.8	13.2	10.2	13.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.0	11.77	1336	383	40	1.0	.0	.5	1.3	1.1	.5	.9	1.0	1.7	1.3
TOT OBS	137	43.4	43.4	12.4	.3	3079	13.4	380	443	354	290	330	503	296	376
TOT PCT	4.4	38.2	43.4	12.4	.3	100.0	13.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)					18	21
	0-6	7-16	17-27	28-40	41+					00	03	06	09	12		
N	4.3	12.3	7.9	1.8	.1	26.4	14.4	26.4	14.4	25.2	28.6	26.3	26.3	25.3	25.3	25.3
NE	4.0	14.3	8.0	.9	.1	27.6	13.8	27.6	13.8	30.3	26.1	26.2	26.2	27.5	27.5	27.5
E	3.0	8.3	5.1	.7	#	17.3	13.5	17.3	13.5	17.0	17.7	17.7	17.7	16.9	16.9	16.9
SE	1.6	3.5	1.4	.3	#	6.8	12.1	6.8	12.1	5.6	6.0	8.4	8.4	7.2	7.2	7.2
S	.9	2.0	.5	#	#	3.5	10.8	3.5	10.8	2.9	4.2	3.2	3.2	3.6	3.6	3.6
SW	.8	1.0	.3	.1	.1	2.2	11.5	2.2	11.5	2.4	1.7	2.2	2.2	2.7	2.7	2.7
W	1.2	1.4	.4	.1	#	3.2	10.9	3.2	10.9	3.4	3.4	2.7	2.7	3.2	3.2	3.2
NW	2.2	3.6	3.3	.9	.1	12.0	14.1	12.0	14.1	12.2	11.3	12.2	12.2	12.1	12.1	12.1
VAR	1.0	.0	.0	.0	.0	1.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.0	1500	830	150	14	1.0	.0	1.0	.0	1.0	.8	1.0	1.0	1.5	1.5	1.5
TOT OBS	585	46.7	27.0	4.9	.5	3079	13.4	828	744	828	744	833	833	674	674	674
TOT PCT	19.0	46.7	27.0	4.9	.5	100.0	13.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1856-1970

OCTOBER

AREA 0008 YAKU SHIMA
29.9N 129.9E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT		TOTAL OBS
				11-21	22-33	34-47	FREQ					
0603	1.0	3.9	34.1	45.8	13.5	1.7	.1	13.8	100.0	828		
0609	.8	3.5	35.5	45.6	13.2	1.3	.1	13.8	100.0	744		
12015	1.0	2.9	43.6	39.5	11.5	1.4	.1	13.0	100.0	833		
18021	1.5	3.4	39.8	42.9	11.4	.6	.4	13.0	100.0	674		
TOT	32	105	1177	1336	383	40	6	13.4	100.0	3079		
PCT	1.0	3.4	38.2	43.4	12.4	1.3	.2					

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-10	OBS	TOTAL OBS	MEAN CLOUD COVER
N	6.4	7.1	8.6	4.8			4.5
NE	6.7	6.7	9.8	6.5			4.8
E	2.8	2.5	5.2	5.6			5.5
SE	1.1	.9	1.7	2.1			5.5
S	.7	.6	1.0	.9			5.1
SW	.4	.3	.7	.5			5.7
W	1.0	.4	1.6	.5			4.4
NW	3.4	2.4	4.3	1.4			4.3
VAR	.0	.0	.0	.0			.0
CALM	.1	.4	.1	.2			4.6
TOT OBS	356	346	374	254		1130	4.8
TOT PCT	22.7	21.8	33.1	22.5		100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-10	OBS	TOTAL OBS	MEAN CLOUD COVER	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION											
								000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
N	.3	.0	.0	.0	.3	.3	4.5	.3	.0	.3	1.5	3.4	3.0	.3	.5	.2	.1	17.4	
NE	.5	.0	.0	.0	.3	.3	4.8	.5	.0	.3	2.0	5.2	3.0	.6	.6	.2	.0	17.9	
E	.1	.0	.0	.0	.6	.6	5.5	.1	.0	.6	.7	3.7	1.3	.5	.2	.1	.2	8.6	
SE	.0	.0	.0	.0	.7	.7	5.5	.0	.0	.7	.7	.5	.8	.1	.1	.2	.1	3.3	
S	.0	.0	.0	.0	.0	.0	5.1	.0	.0	.0	.3	.6	.2	.0	.0	.0	.0	2.0	
SW	.0	.0	.0	.0	.2	.2	5.7	.0	.0	.2	.1	.5	.3	.0	.0	.0	.0	8.9	
W	.0	.0	.0	.0	.1	.1	4.4	.0	.0	.1	.2	.5	.8	.0	.0	.0	.0	2.3	
NW	.0	.0	.0	.0	.0	.0	4.3	.0	.0	.0	.5	1.4	1.3	.1	.1	.1	.0	8.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	4.6	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.5	
TOT OBS	10	17	17	10	17	10	4.8	.9	.0	1.5	6.2	15.9	10.7	1.6	1.0	.4	.5	61.2	1130
TOT PCT	.9	1.5	1.5	.9	1.5	.9												100.0	

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1856-1970

OCTOBER

AREA 0008 YAKU SHIMA
29.9N 129.9E

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH > 4/8) AND VSBY (NH)

CEILING (FEET)	OR >10	OR >5	OR >2	OR >1	OR >1/2	OR >1/4	OR >50YD	OR >0
OR >6500	.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0
OR >5000	1.8	2.0	2.0	2.0	2.0	2.0	2.0	2.0
OR >3500	2.9	3.3	3.4	3.4	3.4	3.4	3.4	3.4
OR >2000	10.8	13.3	12.9	14.0	14.0	14.0	14.0	14.0
OR >1000	21.7	28.0	29.7	29.8	29.8	29.8	29.8	29.8
OR >600	24.7	33.5	35.9	36.0	36.0	36.0	36.0	36.1
OR >200	25.2	34.5	37.2	37.4	37.4	37.5	37.5	37.6
OR >150	25.2	34.5	37.2	37.4	37.4	37.5	37.5	37.6
OR >10	25.4	34.9	37.8	38.1	38.1	38.4	38.4	38.5
OR >0	28.6	39.3	42.6	42.9	42.9	43.2	43.2	43.3
TOTAL								

TOTAL NUMBER OF OBS: 1126

PCT FREQ NH < 5/8: 61.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	6.2	11.1	17.3	15.7	11.1	10.1	9.0	6.9	12.1	.6	1181

OCTOBER

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1856-1970AREA 0008 YAKU SHIMA
29.9N 129.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP #	.1	.1	.0	.0	*	.0	.0	.0	.0	.3	
	NO PCP #	.1	.1	.0	.0	*	.0	*	.0	.0	.4	
1/2<1	PCP #	.0	.1	.1	.0	*	.0	.0	.0	.0	.1	
	NO PCP #	.1	.1	.1	.0	*	.0	*	.0	.0	.3	
	TOT %	.1	.2	.2	.1	.1	.0	.0	.0	.0	.4	
1<2	PCP #	.1	.2	.1	.1	.1	*	*	.0	.0	.5	
	NO PCP #	.0	*	.0	.0	*	.0	.0	.0	.0	.1	
	TOT %	.1	.2	.1	.1	.1	*	*	.0	.0	.6	
2<5	PCP #	.4	.6	.2	.2	.1	.1	*	.0	.0	2.3	
	NO PCP #	.3	.6	.1	.1	*	.0	.1	.0	*	1.5	
	TOT %	.7	1.4	.8	.3	.1	.1	.2	.0	*	3.8	
5<10	PCP #	.5	.6	.3	.1	.2	.1	.2	.0	.0	3.0	
	NO PCP #	3.9	4.9	1.2	.7	.4	.5	2.3	.0	*	17.4	
	TOT %	4.4	5.8	1.5	.9	.7	.6	2.5	.0	*	20.4	
10+	PCP #	.3	.3	.2	.1	.1	.0	.1	.0	.0	1.4	
	NO PCP #	20.7	19.3	5.0	2.4	1.3	2.7	9.6	.0	.8	72.9	
	TOT %	21.1	19.7	5.2	2.5	1.4	2.7	9.6	.0	.8	74.4	
TOT OBS												2754
TOT PCT		26.4	27.1	16.7	7.1	3.7	3.4	12.3	.0	.9	100.0	

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1856-1970

OCTOBER

AREA 0008 YAKU SHIMA
29.9N 129.9E

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSRY (NM)	SFD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.4	.1	.0	.0	.0	.0	.0	.1	.0	.0	.3	.3
	11-21	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	TOT %	.5	.2	.0	.0	.0	.0	.0	.1	.0	.0	.4	.4
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.1	.1
	11-21	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.2	.0	.1	.1	.0	.0	.0	.0	.0	.0	.1	.1
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.2	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	0-3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.4	.5	.3	.1	.1	.1	.1	.1	.0	.0	.1	.1
	11-21	.3	.6	.4	.1	.1	.0	.0	.1	.0	.0	.1	.1
	TOT %	1.1	1.6	1.0	.3	.3	.2	.1	.3	.0	.0	.2	.2
5<10	0-3	.1	.0	.0	.1	.1	.0	.1	.1	.0	.0	.1	.1
	4-10	1.2	1.5	1.1	.5	.3	.3	.3	.7	.0	.0	.5	.5
	11-21	2.0	2.7	2.1	.7	.4	.2	.2	1.2	.0	.0	.9	.9
	TOT %	4.3	5.6	4.0	1.5	.8	.7	.6	2.4	.0	.0	1.9	1.9
10+	0-3	.4	.7	.3	.4	.3	.1	.2	.2	.0	.0	.8	.8
	4-10	8.3	7.5	4.6	2.4	1.0	.3	1.5	4.1	.0	.0	30.2	30.2
	11-21	8.8	9.4	5.5	1.9	1.0	.3	.7	3.5	.0	.0	31.2	31.2
	TOT %	3.3	1.7	.8	.4	.4	.1	.2	1.5	.0	.0	7.9	7.9
TOT OBS		20.7	19.2	11.2	5.1	2.3	1.3	2.6	9.3	.0	.0	72.6	72.6
TOT PCT		20.7	27.0	16.8	7.1	3.6	2.4	3.3	12.2	.0	.0	100.0	100.0

OCTOBER

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1936-1970AREA 0008 YAKU SHIMA
29.9N 129.9E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	000 149	150 299	300 399	300 399	400 499	500 599	600 699	700 799	800+ 899	TOTAL ANY MGT	NH <5/8 OBS
00003	.9	.0	.0	.9	5.5	19.0	10.1	2.1	2.1	.3	41.4	58.6
06009	.3	.0	.0	2.8	7.9	14.5	12.6	1.9	.6	.0	40.6	59.4
12015	.8	.0	.0	.8	5.6	10.9	9.4	1.1	.0	1.5	31.2	68.8
18021	1.6	.0	.0	1.2	4.7	17.4	9.1	.8	.8	.0	36.4	63.6
TOT	10	0	0	17	70	181	121	18	11	5	439	724
PCT	.9	.0	.0	1.5	6.0	15.6	10.4	1.5	.9	.5	37.7	62.3

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/4 1/2<1	1/2<1	1/2<1	2<5	5<10	10+	TOTAL OBS
00003	1.0	.0	.3	4.1	10.8	83.8	314
06009	.0	.0	.0	4.2	15.9	79.9	308
12015	.0	.0	.8	3.5	17.8	77.9	258
18021	.4	.0	.4	2.8	19.1	77.2	246
TOT	4	0	4	42	176	900	1126
PCT	.4	.0	.4	3.7	15.6	79.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	1.3	2.2	10.8	31.8	57.3	314
06009	.3	3.2	14.0	28.2	57.8	308
12015	.8	1.6	10.5	22.1	67.4	258
18021	1.6	2.8	9.8	28.9	61.4	246
TOT	11	28	128	315	683	1126
PCT	1.0	2.5	11.4	28.0	60.7	100.0

OCTOBER

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1856-1970

AREA 0008 YAKU SHIMA
29.9N 129.9E

TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100				
90/94	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	1	.1
85/89	.0	.0	.0	.1	.4	.2	.0	.0	.0	.0	9	.9
80/84	.0	.0	.3	.7	1.6	2.5	2.9	.6	.0	.0	89	8.5
75/79	.0	.0	.0	4.8	11.8	12.5	9.5	3.6	.0	.0	444	42.5
70/74	.0	.0	.0	8.1	12.8	7.8	5.5	4.4	.0	.0	412	39.5
65/69	.0	.0	.1	2.4	1.8	1.1	1.1	1.2	.0	.0	81	7.8
60/64	.0	.0	.0	.2	.1	.2	.1	.1	.0	.0	7	.7
55/59	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.1
TOTAL	.0	.0	.0	16	170	299	198	107	.0	.0	1044	100.0
50F	.0	.0	1.5	16.3	28.6	24.3	19.0	10.2				

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP											VAR	CALM
N	NE	E	SE	S	SW	W	NW					
.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.2	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
1.3	2.2	1.7	.7	1.1	.1	.6	.8	.0	.0	.0	.0	.0
8.0	12.2	10.1	3.3	1.5	1.3	1.9	3.8	.0	.0	.0	.0	.4
13.1	13.1	4.6	1.8	.8	.4	.6	4.6	.0	.0	.0	.0	.4
3.1	1.6	.7	*	.0	.1	.3	1.6	.0	.0	.0	.0	.3
.4	*	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0
.0	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26.1	29.5	17.5	5.9	3.5	2.0	3.5	11.0	.0	.0	.0	.0	1.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR											TOTAL OBS
HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN			
00003	90	84	81	75	68	63	54	74.8	793		793
06009	88	83	81	75	68	64	55	74.9	743		743
12015	84	81	79	73	66	63	57	73.3	834		834
18021	82	81	79	73	66	61	57	73.1	677		677
TOT	90	83	81	74	66	63	54	74.0	3047		3047

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR											TOTAL OBS
HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN				
00003	.0	16.2	29.1	24.9	18.8	11.0	72				309
06009	.0	24.6	29.2	18.7	17.3	10.2	70				284
12015	.0	16.7	29.6	25.3	20.2	8.2	72				233
18021	.0	12.0	25.8	31.1	20.0	11.1	74				225
TOT	0	186	300	259	199	107	72				1051

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1856-1970

OCTOBER

AREA 0008 YAKU SHIMA
29.9N 129.9E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	53	57	61	65	69	73	77	81	85	89	92	TOT	W FOG	WQ FOG
11/13	.0	.0	.0	.0	.0	.0	*	.0	*	.0	.0	3	.0	.1
9/10	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	2	.0	.1
7/8	.0	.0	.0	.0	.0	.1	*	.2	*	.0	.0	10	.0	.4
6	.0	.0	.0	.0	.0	.1	*	.1	*	.0	.0	7	.0	.3
5	.0	.0	.0	.0	.1	.1	.4	.3	.2	.0	.0	28	.0	1.1
4	.0	.0	.0	.0	*	.3	.3	.7	*	.0	.0	35	.0	1.3
3	.0	.0	.0	.0	.0	.1	.1	.1	*	.0	.0	9	.0	.3
2	.0	.0	.0	.0	.2	.9	1.7	1.3	.0	.0	.0	107	*	4.1
1	.0	.0	.0	.0	.0	.3	.6	.4	.0	.0	.0	35	.0	1.3
0	.0	.0	.0	.2	.7	4.4	5.5	2.0	.0	.0	.0	335	.1	12.8
-1	.0	.0	.0	*	.1	.8	1.9	.3	.0	.0	.0	81	.0	3.1
-2	.0	.0	.1	.3	2.1	7.7	7.0	.6	.0	.0	.0	464	.2	17.7
-3	.0	.0	.1	.0	.2	2.5	1.8	.1	.0	.0	.0	123	.0	4.7
-4	.0	.0	.1	.7	5.4	7.2	2.5	.2	.0	.0	.0	414	*	15.9
-5	.0	.0	.5	.8	4.8	5.6	1.3	*	.0	.0	.0	339	*	13.0
-6	.0	.0	*	.2	1.7	2.2	.2	.0	.0	.0	.0	113	.0	4.3
-7/-8	.1	.0	.4	2.1	4.5	2.7	.1	.0	.0	.0	.0	237	*	9.8
-9/-10	.0	.0	.4	1.4	2.9	.8	-	.0	.0	.0	.0	145	.0	5.6
-11/-13	.0	*	.5	1.1	.8	*	.0	.0	.0	.0	.0	63	*	2.4
-14/-16	.0	.1	.2	.5	.2	.0	.0	.0	.0	.0	.0	24	.0	.9
-17/-19	.0	*	.1	.1	.0	.0	.0	.0	.0	.0	.0	5	.0	.2
TOTAL	2	5	62	193	616	934	613	164	9	1	2599	12	2587	
PCT	.1	.2	2.4	7.4	23.7	35.9	23.6	6.3	.3	*	100.0	.5	99.5	

PERIOD: (OVER-ALL) 1963-1970

OCTOBER
TABLE 18

AREA 0008 YAKU SHIMA
29.9N 129.9E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N					NE					PCT		
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33		34-47	48+
<1	.0	.7	.6	.0	.0	.0	.3	.8	.2	.0	.0	.0	1.3
1-2	.0	2.8	2.0	.0	.0	.0	.2	3.9	2.3	.0	.0	.0	6.4
3-4	.0	.8	4.0	1.5	.0	.0	#	3.2	6.2	.4	.0	.0	9.9
5-6	.0	.5	2.2	1.7	.0	.0	.0	.8	5.6	.6	.0	.0	7.0
7	.0	.0	.2	1.4	.3	.0	.0	.0	1.2	.5	.0	.0	1.7
8-9	.0	.0	.3	.5	.0	.2	.0	.0	.4	.7	.2	.0	1.7
10-11	.0	.0	.0	.5	.0	.0	.0	.0	.5	1.2	.0	.0	1.2
12	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3
13-16	.0	.0	.2	.3	.0	.0	.0	.0	.2	.6	.0	.0	.8
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.8	13.5	4.9	.3	.2	.6	8.7	16.6	4.4	.2	.0	30.5

HGT	E					SE					PCT		
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.4
1-2	.0	3.4	2.2	.0	.0	.0	.0	.6	1.1	.0	.0	.0	1.7
3-4	.0	1.3	3.5	.1	.0	.0	.4	.6	1.8	.0	.0	.0	2.8
5-6	.0	.6	3.1	.5	.0	.0	.0	.3	.9	.2	.0	.0	1.4
7	.0	.0	.8	.0	.0	.0	.0	.0	.2	.2	.0	.0	.4
8-9	.0	.0	.1	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	#
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	5.6	9.9	1.5	.3	.0	.6	1.8	4.0	.3	#	.0	6.8

PERIOD: (OVER-ALL) 1963-1970 OCTOBER AREA 0008 YAKU SHIMA
29.9N 129.9E

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S										SW				PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.3	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.7	.5	.0	.0	.0	1.2	.0	.5	.0	.0	.0	.0	.5	
3-4	.1	.3	.4	.0	.0	.0	.9	.0	.2	.0	.0	.0	.0	.2	
5-6	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.1	
7	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	1.3	1.0	.0	.0	.0	2.5	.0	.7	.1	.0	.0	.0	.8	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.0	.2	.0	.0	.0	.3	.2	.2	#	.0	.0	.0	.5
1-2	.2	1.1	.3	.0	.0	.0	1.6	.0	2.2	1.5	.0	.0	.0	3.7
3-4	.0	.0	.4	.0	.0	.0	.9	.0	2.2	2.7	.0	.0	.0	4.6
5-6	.0	.0	.1	.0	.0	.0	.1	.0	1.6	2.0	.7	.0	.0	2.9
7	.0	.1	.0	.0	.2	.0	.3	.3	.0	.4	.2	#	.0	1.0
8-9	.0	.0	.0	.2	.0	.0	.2	.0	.0	.3	.2	.0	.0	.5
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.3	.0	.0	.7
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.7	1.0	.2	.2	.0	3.4	.6	4.0	7.3	1.6	.4	.0	13.9

OCTOBER

PERIOD: (OVER-ALL) 1963-1970

AREA 0008 YAKU SHIMA
29.9N 129.9E

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)							TOT OBS
	0-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	2.4	2.4	1.0	.0	.0	.0	5.8	583
1-2	.5	15.1	9.9	.0	.0	.0	25.6	
3-4	.9	8.6	18.9	2.2	.0	.0	30.5	
5-6	.0	2.2	15.8	2.7	.2	.0	20.9	
7	.3	.2	4.8	2.2	.5	.0	8.1	
8-9	.0	.0	1.0	2.7	.2	.0	3.9	
10-11	.0	.0	1.0	1.5	.5	.2	3.3	
12	.0	.0	.0	.3	.0	.0	.3	
13-16	.0	.0	.5	1.0	.0	.0	1.5	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.1	28.5	53.0	12.9	1.4	.2	100.0	

PERIOD: (OVER-ALL) 1948-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.7	10.4	18.1	9.3	3.6	.7	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	433	3
6-7	.1	.6	7.1	11.3	5.4	2.4	2.0	.6	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	286	6
8-9	.0	.1	.9	3.1	3.7	2.0	1.1	.3	.5	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	116	7
10-11	.0	.0	.2	.4	.7	.5	.5	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28	8
12-13	.0	.0	.0	.0	.1	.0	.5	.1	.5	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	15	11
13	.0	.0	.0	.1	.0	.0	.2	.4	.5	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	13	13
INDEX	1.7	.8	1.4	1.1	1.0	.3	.2	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	66	4
TOTAL	4.3	11.5	26.7	24.3	13.9	5.7	4.6	1.8	2.2	.0	.3	.3	.1	.0	.0	.0	.0	.0	.0	957	5
PCT	4.5	12.0	27.9	25.4	14.5	6.0	4.8	1.9	2.3	.0	.3	.3	.1	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1858-1970

AREA 0008 YAKU SHIMA
29.9N 129.9E

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT OB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				FRZG	SNOW	OTHER FRZN PCPN					FG	SMOKE	DUST	NO	SIG	
N	1.3	.3	.5	.0	.0	.0	.0	2.0		*	.1	*	.0	.0	27.9	
NE	1.1	.3	.4	.0	.0	.0	.0	1.8		*	.1	.0	*	*	18.5	
E	.8	.2	.3	.0	.0	.0	.0	1.3		*	.1	.0	.0	.0	12.4	
SE	.5	.1	.1	.0	.0	.0	.0	.7		*	.0	.0	.0	.0	5.7	
S	.4	*	.1	.0	.0	.0	.0	.5		.1	.0	.0	.0	.0	2.3	
SW	.3	.0	.1	.0	.0	.0	.0	.4		*	.0	.0	.0	.0	2.3	
W	.4	.1	.1	.0	.0	.0	.0	.6		.0	.0	.0	.0	.0	4.0	
NW	.7	.1	.2	.0	.0	.0	.0	1.1		.0	.0	*	.0	.0	17.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	.0	.0	*	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
TOT OBS	140	30	44	.0	.0	.0	.0	*	212	.0	.1	.2	.0	.0	.5	2483
TOT PCT	5.6	1.2	1.8	.0	.0	.0	.0	8.5		.2	.3	.1	*	*	90.9	

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT OB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				FRZG	SNOW	OTHER FRZN PCPN					FG	SMOKE	DUST	NO	SIG	
00203	4.6	1.5	1.2	.0	.0	.0	.0	7.2		.0	.3	.0	.2	.2	92.3	
06009	6.8	1.2	1.8	.0	.0	.0	.0	9.6		.2	.5	.2	.0	.0	89.6	
12015	6.5	1.7	2.1	.0	.0	.0	.0	10.2		.5	.3	.2	.0	.0	89.0	
18021	4.7	.6	1.9	.0	.0	.0	.0	7.1		.2	.3	.0	.0	.0	92.5	
TOT	141	31	44	.0	.0	.0	.0	8.6	214	.5	.9	.2	.1	.1	2270	2500
PCT	5.6	1.2	1.8	.0	.0	.0	.0	8.6		.2	.4	.1	*	*	90.8	

PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1858-1970

NOVEMBER

AREA 0008 YAKU SHINA
29.9N 129.9E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)				
	0-3	4-10	11-21	22-33	34-47	48+	TOTAL DBS	PCT FREQ	MEAN SPD		00	03	06	09	12
N	.7	8.7	15.0	5.7	.4	.0	30.5	15.2	31.8	36.3	26.3	31.1	24.8	30.7	26.8
NE	.8	7.6	9.2	2.5	.2	.0	20.3	13.4	16.2	20.5	21.9	22.3	20.8	22.0	20.1
E	.6	4.7	6.5	1.7	.1	.0	13.5	13.2	15.6	11.3	13.4	13.5	13.5	13.8	14.2
SE	.2	2.9	2.7	.6	*	.0	6.4	11.7	5.7	6.2	5.5	8.6	7.0	6.7	5.9
S	.1	1.2	1.2	.3	*	.0	2.8	12.7	2.5	2.2	3.3	1.2	2.7	2.6	2.9
SW	.5	1.0	.8	.3	.0	.0	2.5	10.9	4.2	3.2	1.9	1.2	2.9	1.9	2.7
W	.2	2.2	1.6	.6	.1	*	4.7	12.2	5.7	4.1	5.2	3.8	6.6	4.0	5.8
NW	.5	4.9	8.5	4.0	.6	*	18.4	16.2	19.0	16.1	22.3	17.6	21.1	17.1	17.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.7	974	1333	457	41	1	2931	.7	.3	.2	.3	.9	.6	1.3	1.2
TOT DBS	125	45.5	15.6	1.4	*	*	100.0	14.1	330	411	328	342	336	470	322
TOT PCT	4.3	33.2	45.5	15.6	1.4	*	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)										TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-6	7-16	17-27	28-40	41+	00	03	06	09	12				15	18	21				
N	3.8	13.8	10.7	2.1	*	30.5	15.2	34.3	28.7	28.2	28.2	30.8	30.8							
NE	3.5	10.6	5.4	.9	*	20.3	13.4	18.6	22.1	21.5	21.5	19.2	19.2							
E	2.1	7.5	3.5	.3	.0	13.5	13.2	13.2	13.2	13.6	13.6	13.8	13.8							
SE	1.4	3.7	1.1	.1	.0	6.4	11.7	6.0	7.1	6.8	6.8	5.7	5.7							
S	.7	1.4	.6	.1	.0	2.8	12.7	2.3	2.2	2.6	2.6	4.2	4.2							
SW	1.0	1.0	.5	.1	.0	2.5	10.9	3.6	1.5	2.3	2.3	2.6	2.6							
W	1.4	2.2	.9	.2	*	4.7	12.2	4.8	4.5	5.1	5.1	4.4	4.4							
NW	1.9	8.1	6.6	1.7	.2	18.4	16.2	16.9	19.9	18.8	18.8	18.3	18.3							
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0							
CALM	.7	1421	856	162	9	2931	.7	.3	.6	1.0	1.0	1.0	1.0							
TOT DBS	483	48.5	29.2	5.5	.3	100.0	14.1	741	670	806	714	714	714							
TOT PCT	16.5	16.5	29.2	5.5	.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0							

NOVEMBER

PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1858-1970

AREA 0008 YAKU SHIMA
29.9N 129.9E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT		TOTAL OBS
				11-21	22-33	34-47	FREQ			FREQ		
0000	.3	2.6	29.1	49.7	16.6	1.8	.0	14.9	100.0		741	
0600	.6	3.0	30.6	48.5	15.7	1.6	.0	14.4	100.0		670	
1200	1.0	5.0	38.6	39.6	14.6	1.2	.0	13.2	100.0		806	
1800	1.0	3.5	33.9	45.0	15.5	1.0	.1	13.8	100.0		714	
TOT	21	104	974	1333	457	41	1	14.1			2931	
PCT	.7	3.5	33.2	45.5	15.6	1.4	*		100.0			

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-6	DBSCD	TOTAL OBS	MEAN CLOUD COVER	
N	6.0	4.7	10.7	5.9			5.0	
NE	3.8	2.5	7.9	5.3			5.3	
E	2.1	3.0	3.8	4.4			5.3	
SE	.8	.9	1.9	1.8			5.6	
S	.7	.2	1.4	1.6			6.0	
SW	.8	.2	1.8	.8			5.6	
W	1.0	1.1	2.1	1.5			5.4	
NW	3.8	3.7	8.2	4.9			5.1	
VAR	.0	.0	.0	.0			.0	
CALM	.3	.1	.0	.2			3.6	
TOT OBS	193	167	382	267		1011	5.2	
TOT PCT	19.3	16.5	37.8	26.4		100.0		

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH > 478) AND OCCURRENCE OF NH < 578 BY WIND DIRECTION

WIND DIR	000	149	150	299	300	599	600	999	1000	2000	3500	4999	5000	6499	7999	8000+	NH < 578	ANY HGT	TOTAL OBS
N	.1	*	.0	.0	.4	.4	2.2	1.3	4.8	4.1	.7	.5	.2	.2	.2	.0	.0	.0	14.7
NE	*	*	.0	.0	.4	.4	1.3	.3	3.5	4.3	.5	.3	.5	.5	.5	.1	.1	.1	9.3
E	.1	.1	.2	.3	.3	.3	.3	.3	3.1	1.5	.3	.3	.0	.0	.0	.0	.0	.0	6.9
SE	.0	.0	.0	.0	.0	.0	.4	.4	1.0	1.0	.1	.1	.0	.0	.0	.2	.2	.2	2.4
S	.0	.0	.0	.0	.2	.2	.2	.2	1.1	.5	.0	.0	.0	.0	.0	*	*	*	1.9
SW	*	*	.0	.0	.1	.1	.3	.3	1.7	.9	.1	.1	.0	.0	.0	.0	.0	.0	1.4
W	.1	.1	.1	.1	.1	.1	.2	.2	1.2	.6	.1	.1	.1	.1	.1	.0	.0	.0	3.2
NW	.1	.1	.1	.1	.6	.6	1.8	4.0	4.0	2.7	.4	.4	.1	.0	.0	.2	.2	.2	10.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS	.6	.6	.4	.4	22	74	74	196	159	15.7	2.2	.5	.5	.5	.5	.6	.6	.6	51.4
TOT PCT	.6	.6	.4	.4	2.2	7.3	7.3	19.4	15.7	2.2	.5	.5	.5	.5	.5	.6	.6	.6	101.0

PERIOD: (PRIMARY) 1933-1970
(EVER-ALL) 1858-1970

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TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	OR >10	OR >5	OR >2	OR >1	OR >1/2	OR >1/4	OR >50YD	OR >0
OR >6500	.7	.9	.9	.9	.9	.9	.9	.9
OR >5000	1.2	1.4	1.4	1.4	1.4	1.4	1.4	1.4
OR >3500	3.0	3.6	3.6	3.6	3.6	3.6	3.6	3.6
OR >2000	16.2	18.9	19.3	19.3	19.3	19.3	19.3	19.3
OR >1000	28.9	37.3	38.4	38.6	38.6	38.6	38.6	38.6
OR >600	33.2	43.4	45.6	45.9	45.9	45.9	45.9	45.9
OR >300	34.1	45.4	47.7	48.1	48.1	48.1	48.1	48.1
OR >150	34.2	45.8	48.1	48.5	48.5	48.5	48.5	48.5
OR >0	34.2	45.8	48.7	49.1	49.1	49.1	49.1	49.1
TOTAL	345	462	491	495	495	495	495	495

TOTAL NUMBER OF OBS: 1009

PCT FREQ NH <5/8: 50.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	DBSCD	TOTAL OBS
0	9.7	14.0	11.4	11.3	10.9	11.8	9.6	16.2	.8	1075	

PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1858-1970

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AREA 0008 YAKU SHIMA
29.9N 129.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.1	
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT %	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.1	
PCP	.1	*	.1	.0	.0	*	.1	.0	.0	.0	.3	
NO PCP	.0	*	.1	.0	.0	.0	.0	.0	.0	*	.1	
TOT %	.1	*	.2	.0	.0	*	.1	.0	.0	*	.4	
PCP	.2	.1	.1	.1	.1	*	.0	.1	.0	*	.7	
NO PCP	.0	*	.1	*	.0	.0	*	.0	.0	.0	.2	
TOT %	.2	.1	.2	.2	.1	*	*	.1	.0	*	.9	
PCP	.5	.2	.1	.2	.1	*	.2	.4	.0	.0	1.7	
NO PCP	.3	.3	*	.1	.1	.1	.0	.3	.0	*	1.0	
TOT %	.8	.5	.2	.3	.2	.1	.2	.6	.0	*	2.7	
PCP	.9	1.1	.7	.3	.3	.2	.2	.4	.0	.0	4.2	
NO PCP	5.6	3.6	2.8	1.5	.7	.3	.9	3.6	.0	*	19.2	
TOT %	6.5	4.7	3.6	1.9	1.0	.5	1.1	4.0	.0	*	23.4	
PCP	.4	.3	.3	.1	.1	.1	.2	.2	.0	.0	1.6	
NO PCP	22.2	14.8	9.5	4.1	1.6	1.9	3.0	13.5	.0	.4	70.9	
TOT %	22.5	15.1	9.7	4.1	1.6	2.0	3.2	13.7	.0	.4	72.5	
TOT OBS												2477
TOT PCT	30.1	20.5	13.8	6.4	2.9	2.7	4.6	18.4	.0	.6	100.0	

PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1858-1970

NOVEMBER

AREA 0008 YAKU SHIMA
29.9N 129.9E

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.1	.1	.1	.1	.1	.1	.1	.2	.0	.0	.7	.7
	11-21	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.4	.4
	22+	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.3	.3
	TOT %	.3	.2	.2	.2	.1	.1	.1	.2	.0	.0	1.3	1.3
2<5	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.2	.2
	4-10	.4	.1	.3	.1	.1	.0	.1	.4	.0	.0	1.5	1.5
	11-21	.7	.5	.1	.3	.1	.0	.1	.3	.0	.0	2.0	2.0
	22+	.5	.2	.1	.1	.0	.0	.0	.2	.0	.0	1.0	1.0
	TOT %	1.6	.8	.5	.4	.2	.1	.1	.9	.0	.2	4.9	4.9
5<10	0-3	.2	.1	.2	.0	.0	.1	.1	.1	.0	.0	.8	.8
	4-10	1.3	1.4	.7	.6	.4	.1	.4	.7	.0	.0	5.7	5.7
	11-21	2.8	2.0	1.7	.8	.3	.1	.4	1.5	.0	.0	9.7	9.7
	22+	2.0	1.0	.8	.3	.3	.1	.2	1.4	.0	.0	6.2	6.2
	TOT %	6.2	4.6	3.4	1.8	1.0	.5	1.1	3.6	.0	.0	22.3	22.3
10+	0-3	.5	.6	.3	.1	.0	.4	.2	.4	.0	.5	3.1	3.1
	4-10	6.9	5.7	3.6	2.2	.8	.9	1.6	3.8	.0	.0	25.4	25.4
	11-21	11.4	6.7	4.6	1.4	.7	.6	1.2	6.2	.0	.0	33.4	33.4
	22+	3.1	1.4	.8	.2	.1	.1	.4	2.6	.0	.0	8.9	8.9
	TOT %	22.0	14.5	9.3	4.0	1.6	2.0	3.4	13.5	.0	.5	70.7	70.7
TOT OBS		30.3	20.1	13.6	6.4	3.0	2.8	4.7	18.4	.0	.7	100.0	2641
TOT PCT													

PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1858-1970

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AREA 0008 YAKU SHIMA
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	300 599	600 999	1000 1999	2000 3499	3500 4999	3000 6499	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	.7	.4	3.3	8.7	19.2	17.0	4.0	.4	.0	1.1	34.7	45.3	276
06009	.0	.4	2.9	8.8	15.7	17.2	1.8	.7	.4	.7	48.5	51.5	274
12015	1.2	.0	1.2	4.4	20.2	15.3	.8	.4	.8	.4	44.8	55.2	248
18021	.4	.8	.8	6.9	20.6	11.3	1.6	.4	.0	.0	42.7	57.3	248
TOT	6	4	22	76	197	160	22	5	3	6	501	545	1046
PCT	.6	.4	2.1	7.3	18.8	15.3	2.1	.5	.3	.6	47.9	52.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.4	.8	2.3	14.8	81.8	264
06009	.0	.0	.4	4.2	17.6	77.8	261
12015	.0	.0	.4	4.9	18.0	76.7	247
18021	.0	.0	1.7	3.3	16.9	78.1	247
TOT	0	1	8	37	170	796	1012
PCT	.0	.1	.8	3.7	16.8	78.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH > 4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	.8	4.9	15.2	42.4	42.4	264
06009	.0	3.4	14.9	36.4	48.7	261
12015	2.0	3.3	9.8	36.7	53.5	245
18021	.8	2.5	12.0	32.6	55.4	242
TOT	9	36	132	376	504	1012
PCT	.9	3.6	13.0	37.2	49.8	100.0

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PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1858-1970

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TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP								TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100		
85/89	.0	.0	.0	.0	.1	.0	.0	.0	1	.1
80/84	.0	.2	.0	.1	1.0	.3	.1	.0	16	1.8
75/79	.0	.0	.0	1.0	2.9	3.8	3.0	1.4	110	12.1
70/74	.0	.0	.2	3.9	11.4	10.4	7.0	5.5	351	38.5
65/69	.0	.0	.8	8.1	9.2	6.3	3.9	2.5	281	30.8
60/64	.0	.0	.7	2.5	4.7	2.5	1.9	.4	116	12.7
55/59	.0	.0	.0	.4	1.5	1.2	.1	.0	30	3.3
50/54	.0	.0	.0	.0	.2	.3	.1	.0	6	.7
45/49	.0	.0	.0	.0	.0	.0	.0	.0	1	.1
TOTAL	.0	.2	1.5	14.7	28.3	22.7	14.8	9.0	912	100.0
PCT	.0	.2	1.6	16.1	31.0	24.9	16.2	9.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP												
N	NE	E	SE	S	SW	W	NW	VAR	CALM			
.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
.2	.1	.7	.6	.1	.0	.0	*	.0	.0	.0	.0	.0
1.1	1.9	3.0	1.6	1.5	1.3	1.1	.7	.0	.0	.0	.0	.0
7.5	8.1	7.2	3.7	2.4	1.6	2.2	5.5	.0	.0	.0	.3	.0
10.1	7.4	3.4	.6	.3	.4	.9	7.6	.0	.0	.0	.1	.0
4.5	1.8	.6	.1	.0	.1	.8	4.6	.0	.0	.0	.2	.0
1.5	.5	.2	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0
.3	.1	.0	.0	.0	.0	.1	.2	.0	.0	.0	.0	.0
.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
25.3	19.9	15.1	6.7	4.2	3.5	5.1	19.6	.0	.0	.0	.7	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR										
HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS	
0003	86	81	77	69	59	54	47	68.8	737	737
0609	86	79	77	69	60	53	50	68.8	670	670
1215	83	78	74	68	58	54	48	67.1	801	801
1821	83	78	74	67	57	54	50	66.8	713	713
TOT	86	79	76	68	59	54	47	67.8	2921	2921

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR											TOTAL
HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	OBS	
0003	.0	17.3	30.2	23.0	17.3	12.1	72	248			
0609	.0	21.4	33.6	20.6	17.6	6.7	70	238			
1215	.0	17.3	28.8	28.4	13.9	11.5	72	208			
1821	.0	15.9	30.1	28.8	16.4	8.8	71	226			
TOT	.0	166	283	230	151	90	71	920			

PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1858-1970

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45	49	53	57	61	65	69	73	77	81	85	TOT	W	WD
11/13	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	2	.0	.1
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.1
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	6	.0	.3
6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	.0	.2
5	.0	.0	.0	.0	.0	.0	.1	.1	.1	.0	.0	12	.0	.5
4	.0	.0	.0	.0	.0	.0	.1	.3	.2	.0	.0	16	.0	.7
3	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	7	.0	.3
2	.0	.0	.0	.0	.1	.2	.4	.7	.9	.1	.0	58	.0	2.4
1	.0	.0	.0	.0	.1	.1	.1	.4	.2	.0	.0	18	.0	.6
0	.0	.0	.0	.0	.1	.4	1.5	2.7	.9	.0	.0	139	.1	5.5
-1	.0	.0	.0	.0	.0	.0	.4	1.3	.2	.1	.0	44	.0	2.1
-2	.0	.0	.0	.0	.3	1.2	5.0	3.9	1.0	.0	.0	265	.0	11.4
-3	.0	.0	.0	.0	.1	.3	1.2	2.1	.0	.0	.0	85	.0	3.7
-4	.0	.0	.1	.1	1.2	3.4	6.9	2.0	.0	.0	.0	320	.0	13.7
-5	.0	.0	.1	.1	2.4	5.0	4.3	1.1	.0	.0	.0	300	.0	12.8
-6	.0	.0	.0	.0	.2	.8	2.3	.5	.0	.0	.0	90	.0	3.8
-7/-8	.0	.0	.2	.3	5.1	6.6	4.3	.2	.0	.0	.0	386	.0	16.5
-9/-10	.0	.0	.0	.8	5.8	3.0	1.1	.0	.0	.0	.0	250	.0	10.7
-11/-13	.0	.0	.3	1.5	5.4	1.8	.2	.0	.0	.0	.0	216	.0	9.3
-14/-16	.0	.1	.7	1.2	1.0	.7	.0	.0	.0	.0	.0	87	.0	3.7
-17/-19	.0	.0	.3	.5	.2	.0	.0	.0	.0	.0	.0	23	.0	1.0
-20/-22	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	4	.0	.2
TOTAL	1	7	41	102	510	557	651	359	89	10	1	2328	.3	99.7
PCT	.3	1.8	4.4	21.9	23.9	28.0	15.4	3.8	.4	.4	.3	100.0	.3	99.7

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TABLE 16
AREA 0008 YAKU SHIMA
29.9N 129.9E

PERIOD: (OVER-ALL) 1963-1970

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT):

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.8	.0	.0	.0	.0	1.3	.2	.1	.0	.0	.0	.0	.3
1-2	.6	2.2	3.1	.0	.0	.0	5.8	.4	1.5	1.9	.0	.0	.0	3.9
3-4	.0	1.5	6.9	.8	.0	.0	9.2	.0	1.5	3.3	.5	.0	.0	5.3
5-6	.0	.8	2.8	1.4	.2	.0	5.2	.0	.7	3.3	.8	.0	.0	4.8
7	.0	.2	1.4	.9	.0	.0	2.5	.0	.1	1.5	.3	.0	.0	1.8
8-9	.0	.0	.3	.7	.0	.0	1.0	.0	.0	.3	.4	.0	.0	.7
10-11	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.2	.0	.3	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	5.5	14.5	4.8	.4	.0	26.2	.7	3.8	10.4	2.2	.0	.0	17.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.4	.0	.0	.0	.8	.0	.4	.0	.0	.0	.0	.4
1-2	.0	2.2	2.1	.0	.0	.0	4.3	.0	1.0	.7	.0	.0	.0	1.7
3-4	.0	1.2	4.9	.3	.0	.0	6.4	.0	.2	2.1	.3	.0	.0	2.6
5-6	.0	.4	2.1	.9	.0	.0	3.4	.0	.3	.5	.2	.0	.0	1.0
7	.0	.2	.5	.0	.0	.0	.6	.0	.0	.2	.4	.0	.0	.7
8-9	.0	.0	.2	.2	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.4	10.4	1.4	.0	.0	16.2	.0	1.9	3.6	1.0	.0	.0	6.5

PERIOD: (OVER-ALL) 1963-1970

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TABLE 18

AREA 0008 YAKU SHIMA
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PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2	.4	.0	.0	.0	.0	.0	.4
1-2	.0	.5	.3	.0	.0	.0	.9	.2	.7	.3	.0	.0	.0	1.2
3-4	.0	.0	2.4	.0	.0	.0	2.4	.0	.0	.8	.3	.0	.0	1.4
5-6	.0	.0	.2	.0	.0	.0	.2	.0	.0	.1	.0	.0	.0	1.1
7	.0	.0	.2	.0	.0	.0	.2	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.8	3.1	.6	.0	.0	4.4	.9	.7	1.5	.6	.0	.0	3.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.2	.0	.0	.0	.0	.3	.3	.7	.0	.0	.0	.0	1.0
1-2	.0	.5	.2	.0	.0	.0	.8	.3	2.7	1.3	.0	.0	.0	4.2
3-4	.0	.2	.8	.3	.0	.0	1.3	.0	.9	4.4	.5	.0	.0	5.8
5-6	.0	.2	.5	.2	.0	.0	.9	.0	.1	2.0	1.2	.0	.0	3.3
7	.0	.0	.4	.5	.0	.0	.9	.0	.0	1.2	1.1	.2	.0	2.5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	1.0	.2	.0	1.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.4
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.2	.0	.7
13-16	.0	.0	.0	.2	.0	.0	.2	.0	.0	.2	.5	.3	.0	1.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.0	1.9	1.3	.0	.0	4.4	.5	.4	9.3	5.2	1.1	.0	20.6

PERIOD: (OVER-ALL) 1963-1970

NOVEMBER

AREA 0008 YAKU SHIMA
29.9N 129.9E

TABLE 18 (CONT)

WIND SPEED (KTS) VS SEA HEIGHT (FT)										TOT OBS
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT			
<1	2.8	2.8	.4	.0	.0	.0	6.1			
1-2	1.5	11.3	9.8	.0	.0	.0	22.7			
3-4	.2	5.4	25.5	3.1	.0	.0	34.2			
5-6	.0	2.4	11.5	4.8	.2	.0	19.0			
7	.0	.4	5.7	3.3	.2	.0	9.6			
8-9	.0	.0	1.1	2.2	.2	.0	3.5			
10-11	.0	.0	.2	.7	.2	.0	1.1			
12	.0	.0	.0	1.3	.2	.0	1.5			
13-16	.0	.0	.2	1.3	.4	.0	2.0			
17-19	.0	.0	.0	.2	.0	.0	.2			
20-22	.0	.0	.0	.0	.0	.0	.0			
23-25	.0	.0	.0	.2	.0	.0	.2			
26-32	.0	.0	.0	.0	.0	.0	.0			
33-40	.0	.0	.0	.0	.0	.0	.0			
41-48	.0	.0	.0	.0	.0	.0	.0			
49-60	.0	.0	.0	.0	.0	.0	.0			
61-70	.0	.0	.0	.0	.0	.0	.0			
71-86	.0	.0	.0	.0	.0	.0	.0			
87+	.0	.0	.0	.0	.0	.0	.0			
TOT PCT	4.6	22.4	54.5	17.0	1.5	.0	100.0			459

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERIOD (SEC)	PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)																		
	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41				
<6	1.3	10.9	22.1	7.8	2.5	1.1	.5	.0	.3	.1	.0	.0	.0	.0	.0				
6-7	.0	1.4	6.4	10.3	6.3	1.6	.9	.0	.3	.0	.0	.0	.0	.0	.0				
8-9	.0	.4	1.1	2.5	5.0	1.6	1.0	.3	.9	.0	.0	.0	.0	.0	.0				
10-11	.0	.1	.0	.5	.9	.6	.3	.6	.4	.0	.0	.1	.0	.0	.0				
12-13	.0	.0	.4	.1	.1	.0	.3	.6	.3	.0	.0	.0	.0	.0	.0				
>13	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.3	.0	.0	.0				
INDET	2.3	1.9	1.0	.4	.3	.6	.1	.1	.0	.0	.3	.0	.0	.0	.0				
TOTAL	28	117	247	172	120	45	25	20	16	1	2	4	0	0	0				
PCT	3.5	14.7	31.0	21.6	15.1	5.6	3.1	2.5	2.0	.1	.3	.5	.0	.0	.0				

DECEMBER

PERIOD (PRIMARY) 1934-1970
(OVER-ALL) 1968-1970

AREA 0000 YAKU SHIMA
30.0N 129.9E

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE				HAIL	PCT FREQ PCPN AT OBS TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				FRZG PCPN	SNOW PCPN	OTHER PCPN	FOG NO PCPN					SMOKE HAZE	DUST BLWG SNOW	SIG WEA			
N	1.8	.6	.8	#	.0	.0	.0	.0	3.2		#	.1	#	.0	32.3		
NE	1.2	.2	.5	.0	.0	.0	.0	.0	1.7		#	#	.0	.0	12.6		
E	.5	.1	.3	.0	.0	.0	.0	.0	.9		#	#	.0	.0	6.4		
SE	.5	.1	.1	.0	.0	.0	.0	.0	.4		#	#	.0	.0	3.9		
S	.2	.1	.1	.0	.0	.0	.0	.0	.3		.0	.0	.0	.0	2.1		
SW	.2	#	.1	.0	.0	.0	.0	.0	.3		.0	.0	.0	.0	1.8		
W	.3	.2	#	.0	.0	.0	.0	.0	1.9		.1	.2	.3	.0	4.9		
NW	.8	.6	.5	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	24.9		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	#	218	.3	.9	.7	.0	199	.4	2237
CALM	.0	.0	#	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0		
TOT OBS	123	42	56	2	0	0	0	0	9.7		.2	.4	.3	.0	89.4		
TOT PCT	5.3	1.9	2.5	.1	.0	.0	.0	.0									

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE				HAIL	PCT FREQ PCPN AT OBS TIME	TOTAL PCPN OBS	THOR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				FRZG PCPN	SNOW PCPN	OTHER PCPN	FRZN PCPN					FOG NO PCPN	SMOKE HAZE	DUST BLWG SNOW	SIG WEA		
00003	4.5	1.7	1.5	.2	.0	.0	.0	.0	8.0		.2	.2	.8	.0	90.8		
06009	6.8	2.3	3.0	.2	.0	.0	.0	.0	11.0		.0	.5	.4	.0	88.1		
12015	4.0	2.1	3.5	.0	.0	.0	.0	.0	9.3		.0	.5	.2	.0	90.0		
18021	6.5	1.5	2.9	.0	.0	.0	.0	.0	10.4	219	.7	.3	.0	.0	88.8		
TOT	123	43	56	2	0	0	0	0	9.7		.3	.9	.7	.0	2012	.4	2251
PCT	5.5	1.9	2.5	.1	.0	.0	.0	.0			.2	.4	.3	.0	89.4		

DECEMBER

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1868-1970

AREA 0008 YAKU SHIMA
30.0N 129.0E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+	00	03	06	09				12	15	18	21				
N	.7	10.3	16.9	6.1	.2	.0	34.4	14.7	14.6	12.1	14.6	14.7	33.4	36.4	32.4	34.9	27.9	37.9	32.6	35.2	
NE	.4	6.8	6.3	1.1	*	.0	14.6	12.0	14.6	12.0	14.6	12.0	14.6	14.6	15.2	15.8	16.3	14.3	11.6	14.8	
E	.2	3.5	3.4	.4	.1	.0	7.6	11.8	7.6	11.8	7.6	11.8	8.8	7.2	5.0	8.6	9.6	7.8	5.4	7.2	
SE	.3	2.2	1.7	.4	.1	.0	4.8	10.5	4.8	10.5	4.8	10.5	2.7	4.0	5.0	3.5	8.2	6.0	3.4	5.2	
S	.2	1.3	.7	.2	.0	.0	2.4	10.7	2.4	10.7	2.4	10.7	1.9	2.3	3.6	1.2	3.3	2.0	4.8	1.2	
SW	.3	.9	.8	.1	.0	.0	2.2	15.5	2.2	15.5	2.2	15.5	2.8	3.2	3.6	.5	2.2	.9	3.0	1.8	
W	.2	1.7	2.4	1.3	.1	*	5.7	15.5	5.7	15.5	5.7	15.5	6.6	5.2	6.4	4.0	4.9	5.1	9.0	5.7	
NW	.5	6.5	12.6	7.0	.9	.0	27.5	16.9	27.5	.0	27.5	.0	28.1	26.6	28.1	30.8	25.1	25.1	27.1	29.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.8	.0	.0	.0	.0	.0	.8	.0	.8	.0	.8	.0	1.1	.5	.3	.6	2.3	.9	1.1	.3	
TOT OBS	97	878	1179	435	40	1	2630	14.3	276	383	292	324	263	434	274	384	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-6	7-16	17-27	28-40					00	03	06	09	12	15	18	21
N	3.8	17.0	11.8	1.7	.0	34.4	14.7	14.6	35.1	33.7	34.1	34.5	34.4	34.1	34.5	34.5
NE	2.7	8.5	3.0	.4	*	14.6	12.1	14.6	14.6	15.5	15.0	13.4	14.6	15.0	13.4	13.4
E	1.7	4.0	1.6	.2	.0	7.6	12.0	7.6	7.9	7.1	8.5	6.8	7.6	8.5	6.8	6.8
SE	1.1	2.4	1.1	.1	*	4.8	11.8	4.8	3.5	4.2	6.9	4.4	4.8	6.9	4.4	4.4
S	.8	1.1	.5	*	.0	2.4	10.5	2.4	2.1	2.4	2.3	2.7	2.4	2.3	2.7	2.7
SW	.6	1.1	.4	*	.0	2.2	10.7	2.2	3.0	1.9	1.4	2.3	3.0	1.4	2.3	2.3
W	.9	2.6	1.7	.5	.1	5.7	15.5	5.7	5.8	5.2	5.0	6.9	5.7	5.0	6.9	6.9
NW	2.5	11.5	10.1	3.2	.2	27.5	16.9	27.5	27.2	29.5	25.2	28.3	27.2	25.2	28.3	28.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.8	.0	.0	.0	.0	.8	.0	.0	.8	.5	1.4	.6	.8	.5	1.4	.6
TOT OBS	395	1271	793	163	8	2630	14.3	659	659	616	897	858	659	616	897	858
TOT PCT	15.0	48.3	30.2	5.2	.3	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

DECEMBER

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1868-1970

AREA 0008 YAKU SHIMA
30.0N 129.9E

TABLE 4

HOUR	CALM	PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)						PCT FREQ	
		1-3	4-10	11-21	22-33	34-47	48+		MEAN
0003	.8	3.3	29.4	46.6	17.9	2.0	.0	14.9	100.0
0609	.5	1.8	33.8	44.2	18.2	1.5	.2	14.7	100.0
1215	1.4	3.7	36.3	42.3	15.1	1.1	.0	13.6	100.0
1821	.6	2.4	33.9	46.4	15.2	1.5	.0	14.2	100.0
TOT	22	75	878	1179	435	40	1	14.3	100.0
PCT	.8	2.9	33.4	44.8	16.5	1.5	#		100.0

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	PCT FREQ							TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8-10	11-12	13-14	15-16		
N	4.8	4.4	13.5	10.2				5.6	5.6
NE	2.1	3.2	4.3	4.9				5.4	5.4
E	.9	.9	2.7	3.2				5.9	5.9
SE	.8	.6	1.4	2.1				5.7	5.7
S	.2	.9	1.2	1.2				5.8	5.8
SW	.4	.6	.8	.9				5.4	5.4
W	.7	.9	2.9	1.9				5.7	5.7
NW	3.7	4.0	12.7	6.4				5.5	5.5
VAR	.0	.0	.0	.0				.0	.0
CALM	.3	.2	.1	.1				3.2	3.2
TOT OBS	126	142	357	278				903	5.6
TOT PCT	14.0	15.7	39.5	30.8				100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH > 4/8
AND OCCURRENCE OF NH < 5/8 BY WIND DIRECTION

WIND DIR	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH > 4/8 AND OCCURRENCE OF NH < 5/8 BY WIND DIRECTION														TOTAL OBS
	000	149	150	299	300	599	600	799	800+	5000	6499	7999	8000+	ANY	
N	.0	.0	.0	.0	1.1	3.9	7.5	5.3	1.2	.1	.1	.1	.3	13.2	659
NE	.0	.0	.0	.0	.3	1.6	1.8	2.0	.5	.0	.0	.0	.1	7.6	616
E	.1	.1	.0	.0	.0	.7	1.6	1.0	1.1	.0	.0	.0	.1	3.2	697
SE	.1	.1	.0	.0	.0	1.1	.8	.8	.1	.0	.0	.0	.1	2.0	658
S	.0	.0	.0	.0	.0	.4	.4	.4	.1	.0	.0	.0	.1	1.5	2630
SW	.0	.0	.0	.0	.0	.3	.5	.5	.2	.0	.0	.0	.0	1.3	
W	.0	.0	.0	.0	.0	.6	4.7	1.6	1.0	.0	.0	.0	.1	10.3	
NW	.0	.0	.0	.0	.5	3.2	6.1	5.6	1.0	.1	.0	.0	.0	.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	3	3	2	2	17	107	187	156	38	2	2	4	6	381	903
TOT PCT	.3	.3	.2	.2	1.9	11.8	20.7	17.3	4.2	.2	.2	.4	.7	42.2	100.0

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1868-1970

DECEMBER

AREA 0008 YAKU SHIWA
30.0N 129.5E

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH > 4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)				
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2
= OR >6500	1.0	1.0	1.1	1.1	1.1
= OR >5000	1.2	1.2	1.3	1.3	1.3
= OR >3500	4.2	5.0	5.5	5.5	5.5
= OR >2000	16.5	22.0	22.8	22.8	22.8
= OR >1000	30.6	41.9	43.3	43.7	43.7
= OR >600	37.1	52.2	54.9	55.5	55.6
= OR >300	37.8	53.7	56.7	57.3	57.5
= OR >150	37.9	53.9	56.9	57.6	57.7
= OR >0	38.0	54.1	57.1	57.9	58.0
TOTAL	341	486	513	520	521

TOTAL NUMBER OF OBS: 898

PCT FREQ NH < 5/8: 42.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	5.0	3.9	12.6	9.3	10.3	10.2	15.5	10.8	21.8	.5	942

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1868-1970

DECEMBER

AREA 0008 YAKU SHIMA
30.0N 129.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY														TOTAL OBS
VSBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS		
<1/2	PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1			
	ND PCP	*	*	.0	.0	.0	.0	.0	.0	.0	*			
	TOT %	*	.1	.0	.0	.0	.0	.0	.0	.0	.1			
1/2<1	PCP	.1	*	.0	.0	.0	.0	.1	.0	.0	.2			
	ND PCP	.1	.0	.0	*	.0	.0	.2	.0	.0	.4			
	TOT %	.2	*	.0	*	.0	.0	.3	.0	.0	.6			
1<2	PCP	.1	.2	.2	.1	.0	*	.1	.0	.0	.8			
	ND PCP	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1			
	TOT %	.1	.2	.2	.1	.0	*	.1	.0	.0	.9			
2<5	PCP	.3	.3	.2	.1	*	.1	*	.0	.0	1.2			
	ND PCP	.4	.3	.2	.1	*	.0	*	.5	.0	1.5			
	TOT %	.7	.6	.4	.2	.1	.1	.1	.6	.0	2.7			
5<10	PCP	1.7	.8	.4	.5	.2	.1	.2	1.0	.0	4.9			
	ND PCP	7.2	2.2	1.5	.8	.4	.6	.6	6.4	.0	*	19.8		
	TOT %	8.9	3.0	1.9	1.3	.6	.7	.8	7.4	.0	*	24.7		
10+	PCP	1.0	.2	.2	.1	.1	*	.2	.6	.0	*	2.6		
	ND PCP	24.7	10.2	4.8	3.0	1.7	1.3	4.2	18.3	.0	.4	68.4		
	TOT %	25.7	10.4	5.0	3.1	1.7	1.3	4.4	18.9	.0	.4	70.9		
TOT OBS														2232
TOT PCT		35.7	14.4	7.4	4.7	2.4	2.1	5.4	27.4	.0	.5	100.0		

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1868-1970

DECEMBER

AREA 0008 YAKU SHIMA
30.0N 129.9E

TABLE 9
PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.1	.1	.0	.0	.0	.0	.0	.1	.0	.0	.4	.4
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	TOT %	.2	.1	.0	.0	.0	.0	.0	.2	.0	.0	.5	.5
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2
	11-21	.2	.0	.0	.0	.0	.0	.0	.2	.0	.0	.4	.4
	TOT %	.3	.0	.0	.0	.0	.0	.0	.2	.0	.0	.7	.7
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.4	.4
	11-21	.1	.2	.2	.0	.0	.0	.1	.1	.0	.0	.9	.9
	TOT %	.3	.3	.3	.2	.0	.0	.1	.2	.0	.0	.4	.4
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.2	.3	.2	.1	.1	.0	.1	.2	.0	.0	1.3	1.3
	11-21	.8	.3	.4	.1	.0	.1	.1	.4	.0	.0	2.3	2.3
	TOT %	1.6	.8	.6	.3	.1	.1	.4	1.1	.0	.0	5.1	5.1
5<10	0-3	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.3	.3
	4-10	1.9	1.3	.8	.5	.3	.3	.2	1.3	.0	.0	6.7	6.7
	11-21	4.3	1.2	.8	.5	.1	.3	.4	3.0	.0	.0	10.6	10.6
	TOT %	8.2	2.9	1.7	1.2	.6	.6	.8	6.9	.0	.0	23.0	23.0
10+	0-3	.5	.3	.2	.3	.2	.3	.2	.4	.0	.5	2.9	2.9
	4-10	7.9	5.0	2.2	1.7	.9	.5	1.4	5.0	.0	.0	24.7	24.7
	11-21	12.2	4.2	2.2	.9	.5	.4	1.7	8.6	.0	.0	30.7	30.7
	TOT %	24.6	10.1	4.8	3.2	1.6	1.3	4.2	18.4	.0	.5	68.7	68.7
TOT OBS		35.2	14.2	7.5	5.0	2.4	2.1	5.6	27.4	.0	.5	100.0	242.0

DECEMBER

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1858-1970

AREA 0068 YAKU SHIMA
30.0N 129.9E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	8000+	TOTAL	NH < 5/8 ANY MGT	TOTAL OBS
00003	.9	.0	2.2	13.0	20.9	16.5	3.0	.0	.0	56.5	43.5	230
06009	.0	.4	2.7	18.0	21.2	16.1	3.1	.4	.8	63.1	36.9	233
12015	.0	.0	.0	8.6	18.7	18.2	5.3	.5	1.0	52.6	47.4	209
18021	.5	.5	2.3	6.0	22.0	17.9	5.5	.0	.0	56.4	43.6	218
TOT	3	2	17	107	189	156	38	2	4	524	388	912
PCT	.3	.2	1.9	11.7	20.7	17.1	4.2	.2	.4	57.5	42.5	100.0

TABLE 11

PERCENT FREQUENCY VS. Y (NH) BY HOUR

HOUR (GMT)	< 1/2	1/2 < 1	1 < 2	2 < 3	3 < 4	4 < 5	5 < 10	10+	TOTAL OBS
00003	.6	.0	1.8	3.1	17.6	77.5	227		227
06009	.0	.0	.8	3.6	16.7	78.9	251		251
12015	.0	.0	.0	4.8	21.7	73.4	207		207
18021	.0	.5	.5	2.8	23.9	72.3	213		213
TOT	0	1	7	32	178	680	898		898
PCT	.0	.1	.8	3.6	19.8	75.7	100.0		100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH > 4/8) BY HOUR

HOUR (GMT)	< 150 < 50YD	< 600 < 1	< 1000 < 5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	.9	3.1	18.5	39.2	42.3	227
06009	.4	3.6	23.5	40.6	35.9	251
12015	.0	.0	12.1	41.5	46.4	207
18021	.9	4.2	11.3	46.5	42.3	213
TOT	5	25	150	376	372	898
PCT	.6	2.8	16.7	41.9	41.4	100.0

DECEMBER

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1868-1970

AREA 0008 YAKU SHIMA
30.0N 129.9E

TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100				
75/79	.0	.0	.0	.0	.0	.1	.0	.0			1	.1
70/74	.0	.0	.0	.2	.4	1.1	2.9	1.8	.5		57	7.0
65/69	.0	.0	.0	1.5	2.6	6.4	7.5	4.7	1.7		198	24.3
60/64	.0	.0	.1	.5	5.1	11.9	8.5	6.1	3.3		290	35.5
55/59	.0	.0	.0	.5	3.3	7.5	7.0	3.2	1.3		187	22.9
50/54	.0	.0	.0	.1	1.6	2.9	2.1	1.5	.7		73	8.9
45/49	.0	.0	.0	.0	.0	.1	.6	.3	.1		10	1.2
TOTAL	0	1	23	106	244	234	145	63			616	100.0
PCT	.0	.1	2.8	13.0	29.9	28.7	17.8	7.7				

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP												
N	NE	E	SE	S	SW	W	NW	VAR	CALM			
.0	.0	.0	.0	.1	.0	.0	.0	.0	.0			
.6	.6	.6	1.5	1.1	.8	1.1	.4	.0	.0			
5.9	3.7	2.5	2.8	1.8	1.2	1.5	4.9	.0	.2			
13.0	5.7	3.9	1.1	.6	.4	2.6	8.1	.0	.0			
9.4	2.9	.5	.1	.2	.3	1.0	8.3	.0	.1			
3.7	.8	.2	.0	.0	.0	.4	3.8	.0	.0			
.4	.0	.0	.0	.0	.0	.2	.6	.0	.0			
33.2	13.8	7.6	5.4	3.7	2.7	6.8	26.1	.0	.0			

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR										
HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS	
00003	79	74	72	61	50	46	46	61.3	654	
06009	75	73	72	62	52	46	41	61.4	616	
12015	79	74	70	61	50	46	41	60.7	698	
18021	73	72	69	61	50	46	41	60.1	656	
TOT	79	73	70	61	51	46	41	60.9	2624	

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR									
HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN
00003	.0	12.8	24.6	36.9	16.7	8.9	73		
06009	.0	14.0	33.2	30.1	14.8	7.9	71		
12015	.0	19.3	33.2	26.7	13.9	7.0	70		
18021	.0	18.0	28.0	21.0	26.0	7.0	72		
TOT	0	130	244	236	145	63	71		
									816

PERIOD: (PRIMARY) 1934-1970
(OVER-ALL) 1868-1970

DECEMBER

AREA 0008 YAKU SHIMA
30.0N 129.9E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	41	45	49	53	57	61	65	69	73	77	TOT	M FOG	MD FOG
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.1
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	5	.0	.2
6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	.0	.2
4	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	12	.0	.6
3	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	4	.0	.2
2	.0	.0	.0	.0	.0	.0	.3	.5	.2	.0	26	.0	1.2
1	.0	.0	.0	.0	.0	.0	.1	.0	.2	.0	8	.0	.4
0	.0	.0	.0	.2	.2	.4	.6	.8	.3	.0	51	.0	2.4
-1	.0	.0	.0	.0	.0	.0	.2	.4	.2	.0	18	.0	.9
-2	.0	.0	.0	.3	.2	.7	1.8	2.2	.2	.0	115	.0	5.3
-3	.0	.0	.0	.0	.0	.2	.5	.9	.0	.0	35	.0	1.6
-4	.0	.0	.0	.1	.5	3.0	3.1	1.1	.0	.0	163	.2	7.6
-5	.0	.0	.1	.3	1.1	4.8	3.3	.6	.0	.0	215	.0	10.3
-6	.0	.0	.0	.1	.3	.3	1.2	.3	.0	.0	41	.0	2.0
-7/-8	.0	.1	.3	.8	2.2	7.3	3.3	.3	.0	.0	299	.0	14.3
-9/-10	.0	.1	.4	1.4	4.1	7.0	1.5	.0	.0	.0	303	.0	14.4
-11/-13	.0	.3	1.0	4.5	7.2	5.5	.1	.0	.0	.0	390	.0	18.7
-14/-16	.0	.7	1.9	4.7	3.8	.6	.0	.0	.0	.0	245	.0	11.7
-17/-19	.1	.4	1.1	2.0	.9	.1	.0	.0	.0	.0	97	.0	4.6
-20/-22	.0	.3	.8	.8	.2	.0	.0	.0	.0	.0	44	.0	2.1
-23/-25	.0	.2	.3	.0	.0	.0	.0	.0	.0	.0	12	.0	.6
TOTAL	5	46	326	429	626	340	156	30	7	2090	100.0	.3	99.7
PCT	.2	2.2	6.0	15.6	20.5	30.0	16.3	7.5	1.4	.3			

PERIOD: (OVER-ALL) 1963-1970

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30.0N 129.9E

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.0	.2	.0	.0	.0	1.2	.2	.7	.0	.0	.0	.0	1.0
1-2	.0	4.0	3.2	.0	.0	.0	7.4	.0	3.2	1.0	.0	.0	.0	4.1
3-4	.0	1.6	7.5	1.4	.0	.0	10.5	.0	1.5	2.2	.5	.0	.0	4.2
5-6	.0	.7	4.9	1.3	.0	.0	6.9	.0	.0	2.5	.8	.0	.0	3.4
7	.0	.5	1.0	1.3	.0	.0	2.8	.0	.2	.9	.2	.0	.0	1.4
8-9	.0	.0	.5	1.7	.0	.0	2.4	.0	.0	.4	.0	.2	.0	.6
10-11	.0	.0	.2	1.1	.2	.0	1.5	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	1.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	7.7	18.6	7.1	.4	.0	34.0	.2	5.6	6.9	1.7	.2	.0	14.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.2	.2	.0	.0	.0	.7	.1	.7	.2	.0	.0	.0	1.0
1-2	.0	1.2	1.3	.0	.0	.0	2.5	.0	.8	.3	.0	.0	.0	1.1
3-4	.0	.7	1.7	.2	.0	.0	2.6	.0	.3	.8	.2	.0	.0	1.1
5-6	.0	.0	1.0	.0	.0	.0	1.0	.0	.2	.8	.0	.0	.0	1.3
7	.0	.0	.6	.2	.0	.0	.8	.0	.0	.8	.0	.0	.0	.8
8-9	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.3	5.0	.5	.0	.0	8.0	.1	2.0	2.9	.2	.2	.0	5.5

PERIOD: (OVER-ALL) 1963-1970
 DECEMBER
 TABLE 18
 AREA 0008 YAKU SHIMA
 30.0N 129.9E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2	.2	.1	.0	.0	.0	.0	.3
1-2	.2	.9	.2	.0	.0	.0	1.4	.0	.5	.5	.0	.0	.0	1.0
3-4	.2	.4	.6	.0	.0	.0	1.3	.0	.2	.2	.2	.0	.0	.7
5-6	.0	.0	.6	.2	.0	.0	.8	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
8-9	.0	.0	.2	.0	.0	.0	.2	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	1.5	1.6	.2	.0	.0	3.8	.2	.8	.8	.5	.0	.0	2.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2	.0	.3	.0	.0	.0	.0	.3
1-2	.4	1.0	.5	.0	.0	.0	1.9	.0	3.6	2.0	.0	.0	.0	5.9
3-4	.0	.2	1.0	.0	.0	.0	1.3	.0	1.3	4.9	.5	.0	.0	6.7
5-6	.0	.0	.8	.8	.0	.0	1.6	.0	1.0	2.4	1.0	.0	.0	4.3
7	.0	.0	.2	.2	.0	.0	.4	.0	.2	1.0	2.1	.0	.0	3.4
8-9	.0	.0	.0	.0	.0	.0	.2	.0	.0	.6	.5	.0	.0	1.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.8	.1	.0	1.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.0	.0	1.2
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	1.4	2.6	1.1	.0	.0	5.5	.3	6.6	10.9	6.6	.8	.0	25.3

PERIOD: (OVER-ALL) 1963-1970

DECEMBER

AREA 0608 YAKU SHIMA
30.0N 129.9E

TABLE 18 (CONT)

WIND SPEED (KTS) VS SEA HEIGHT (FT)										TOT OBS
HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT			
<1	2.1	3.3	.7	.0	.0	.0	6.2			
1-2	1.2	15.0	8.8	.0	.0	.0	24.9			
3-4	.5	6.2	18.8	2.9	.0	.0	28.3			
5-6	.0	1.9	13.1	4.3	.0	.0	19.2			
7	.0	1.0	4.5	.0	.0	.0	9.7			
8-9	.0	.0	1.9	2.4	.7	.0	5.0			
10-11	.0	.5	.2	1.9	.2	.0	2.9			
12	.0	.0	1.0	1.2	.2	.0	2.4			
13-16	.0	.0	.0	.7	.2	.0	1.0			
17-19	.0	.0	.0	.2	.2	.0	.5			
20-22	.0	.0	.0	.0	.0	.0	.0			
23-25	.0	.0	.0	.0	.0	.0	.0			
26-32	.0	.0	.0	.0	.0	.0	.0			
33-40	.0	.0	.0	.0	.0	.0	.0			
41-48	.0	.0	.0	.0	.0	.0	.0			
49-60	.0	.0	.0	.0	.0	.0	.0			
61-70	.0	.0	.0	.0	.0	.0	.0			
71-86	.0	.0	.0	.0	.0	.0	.0			
87+	.0	.0	.0	.0	.0	.0	.0			
TOT PCT	3.8	27.8	48.9	17.8	1.7	.0	100.0			421

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.8	12.1	17.9	7.6	2.5	1.5	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	309	3
6-7	.0	1.3	6.4	7.1	6.4	2.8	1.6	.9	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	186	6
8-9	.1	.1	.9	2.5	3.5	2.0	1.7	.3	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	63	7
10-11	.0	.4	.3	.6	1.5	1.5	1.0	.6	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	44	8
12-13	.0	.0	.3	.0	.1	.0	.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	8
>13	.0	.0	.0	.0	.0	.1	.1	.3	.1	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	7	14
INDET	2.0	1.6	2.0	1.3	.6	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	53	3
TOTAL	34	107	191	131	100	54	37	16	13	3	1	0	1	0	0	0	0	0	0	688	5
PCT	4.9	15.6	27.8	19.0	14.5	7.8	5.4	2.3	1.9	.4	.1	.0	.1	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1856-1970

ANNUAL

AREA 0008 YAKU SHIMA
29.9N 129.9E

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN DBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL DBS
				FRZG PCPN	SNOW	OTHER FRZN PCPN					PCPN	FOG	SMOKE	DUST	NO SIG	
N	1.0	.3	.3	*	*	.0	*	1.7	*	*	.1	.1	.1	.0	18.3	
NE	1.2	.2	.3	*	.0	.0	*	1.8	*	*	.1	.1	.1	*	12.3	
E	1.2	.2	.3	*	.0	.0	*	1.8	*	.1	.1	.1	.1	*	11.9	
SE	.9	.2	.3	*	.0	.0	.0	1.4	*	.1	.1	.1	*	*	8.6	
S	.8	.2	.2	*	.0	.0	*	1.1	*	.1	.1	.1	*	.0	6.9	
SW	.8	.1	.2	.0	.0	.0	.0	1.2	*	.1	.1	.1	*	.0	6.9	
W	.5	.1	.1	*	.0	.0	*	.7	*	*	.1	.1	*	*	5.9	
NW	.7	.3	.2	*	.0	.0	*	1.2	*	*	.1	.1	.1	*	15.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	
CALM	*	.0	*	.0	.0	.0	.0	*	*	*	*	*	*	.0	1.0	
TOT DBS	2285	508	647	18	1	0	16	10.9	3431	127	225	158	158	6	27230	31153
TOT PCT	7.3	1.6	2.1	.1	*	.0	.1			.4	.7	.5	.5	*	87.5	

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN DBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL DBS
				FRZG PCPN	SNOW	OTHER FRZN PCPN					PCPN	FOG	SMOKE	DUST	NO SIG	
00003	6.6	1.9	1.8	.1	.0	.0	*	10.3		.1	.7	.8	.6	*	88.1	
06009	7.2	1.8	2.0	.1	.0	.0	.1	10.9		.1	.6	.6	.6	.0	87.8	
12015	7.4	1.6	2.2	.1	*	.0	.1	11.2		.7	.8	.4	.4	*	87.0	
18021	7.8	1.4	2.2	*	.0	.0	*	11.3		.8	.8	.3	.3	*	87.0	
TOT	2302	518	649	18	1	0	17	10.9	3461	134	233	163	163	6	27484	31455
PCT	7.2	1.7	2.0	.1	*	.0	.1			.4	.7	.5	.5	*	87.5	

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PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1856-1970AREA 0008 YAKU SHIMA
29.6N 129.9E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)					48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47					00	03	06	09	12	15	18	21
N	.7	6.7	9.1	3.3	.3	*	*	20.1	13.3	20.3	20.7	18.5	20.9	18.3	20.7	19.1	21.1
NE	.7	5.9	6.0	1.6	.2	*	*	14.4	12.5	14.9	15.7	15.3	14.0	15.1	13.3	13.5	14.1
E	.7	5.3	6.1	1.7	.2	*	*	14.0	13.1	14.2	13.9	14.4	14.8	14.0	14.4	12.9	14.1
SE	.5	4.4	4.2	1.0	.1	*	*	10.2	12.5	9.0	9.7	9.0	10.8	10.7	11.6	10.0	10.3
S	.5	3.6	3.2	.8	.1	*	*	8.2	12.2	7.8	7.9	8.6	7.7	8.0	8.2	9.1	8.3
SW	.5	3.3	3.5	.8	*	*	*	8.1	12.2	9.1	8.0	8.5	7.7	8.1	7.4	8.9	7.6
W	.4	2.8	2.4	.9	.1	*	*	6.6	13.3	7.0	6.4	8.0	6.2	6.9	5.8	7.9	5.9
NW	.5	5.1	7.2	3.7	.5	*	*	17.0	14.1	16.3	16.8	16.4	16.9	16.6	17.1	16.1	18.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.4	13.94	15.32	4.64	5.56	46	36228	1.4	.0	1.4	.8	1.2	1.1	2.3	1.4	2.5	.9
TOT OBS	2136	13394	15132	4964	556	46	36228	100.0	13.4	3923	5380	3698	4609	3788	6193	3627	5010
TOT PCT	5.9	37.1	41.7	13.6	1.5	.1	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TCTAL OBS	PCT FREQ	MEAN SPD	00 03	HOUR (GMT)				
	0-6	7-16	17-27	28-40	06 09						12 15	18 21			
N	3.0	9.6	6.2	1.2	*	*	20.1	13.3	20.6	19.8	19.8	20.3			
NE	2.9	7.4	3.5	.6	*	*	14.4	12.5	15.4	15.3	13.5	13.9			
E	2.7	6.9	3.6	.6	*	*	14.0	13.1	14.0	14.6	14.0	13.0			
SE	2.2	5.4	2.2	.4	*	*	10.2	12.5	9.4	10.0	11.5	13.0			
S	2.0	4.2	1.6	.3	*	*	8.2	12.2	7.8	8.1	8.1	10.1			
SW	1.8	4.0	2.0	.2	*	*	8.1	12.2	6.4	8.1	7.7	8.7			
W	1.5	3.2	1.5	.4	*	*	6.6	13.3	6.7	7.0	6.2	7.7			
NW	2.2	7.2	5.7	1.7	.1	*	17.0	14.1	16.6	16.7	16.9	17.6			
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
CALM	1.4	17366	9597	1939	1.4	36228	1.4	.0	1.0	1.1	1.7	1.9			
TOT OBS	7160	48.0	26.4	5.3	.4		100.0		9303	9307	9981	8637			
TOT PCT	19.9						100.0		100.0	100.0	100.0	100.0			

ANNUAL
TABLE A
AREA 0000 YAKU SHIMA
19.0N 100.0E

PERIOD: (PRIMARY) 1923-1970
(OVER-ALL) 1956-1970

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-23	30-37	48+	MEAN	PCT	TOTAL
0000	1.0	4.2	30.7	43.0	14.0	1.9	.1	13.0	100.0	9303
0600	1.1	4.2	35.5	43.0	14.0	1.6	.1	13.0	100.0	9307
1200	1.7	5.2	30.4	39.4	12.7	1.4	.1	12.0	100.0	9081
1800	1.6	4.4	38.8	41.8	12.0	1.1	.1	13.1	100.0	9437
TOT	501	1635	13304	18132	4947	840	40	13.4		30720
PCT	1.4	4.5	37.1	41.7	13.6	1.5	.1		100.0	

TABLE B

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-10	TOTAL
N	3.5	3.1	6.5	5.7	5.3
NE	3.0	2.3	4.4	4.5	5.2
E	2.4	2.4	4.0	4.9	5.6
SE	1.8	1.7	2.8	3.0	5.5
S	1.7	1.4	2.9	2.9	5.5
SW	1.7	1.5	3.5	2.6	5.5
W	1.7	1.4	2.8	2.3	5.2
NW	3.0	2.6	6.6	3.9	4.9
VAR	.0	.0	.0	.0	.0
CALM	.7	.3	.3	.3	2.9
TOT OBS	2398	2053	4072	3653	12176
TOT PCT	19.5	16.7	33.6	30.2	100.0

TABLE C

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NM 2500+
AND OCCURRENCE OF NM 2500+ BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-10	1000	2000	3000	4000	5000	6000	8000+	NM 2500+ ANY DIR	TOTAL
N	3.5	3.1	6.5	5.7	4.0	2.0	1.5	1.1	1.1	1.1	1.1	8.8	
NE	3.0	2.3	4.4	4.5	3.6	1.7	1.3	1.1	1.1	1.1	1.1	7.4	
E	2.4	2.4	4.0	4.9	2.7	1.4	1.3	1.1	1.1	1.1	1.1	7.4	
SE	1.8	1.7	2.8	3.0	1.5	1.0	1.2	1.1	1.1	1.1	1.1	5.6	
S	1.7	1.4	2.9	2.9	1.5	1.0	1.0	1.1	1.1	1.1	1.1	5.6	
SW	1.7	1.5	3.5	2.6	1.5	1.0	1.1	1.1	1.1	1.1	1.1	5.6	
W	1.7	1.4	2.8	2.3	1.6	1.0	1.1	1.1	1.1	1.1	1.1	5.6	
NW	3.0	2.6	6.6	3.9	3.2	2.7	2.4	1.1	1.1	1.1	1.1	7.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.7	.3	.3	.3	2.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	
TOT OBS	2398	2053	4072	3653	1106	1106	1106	1106	1106	1106	1106	1106	12176
TOT PCT	19.5	16.7	33.6	30.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	100.0

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TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH > 4/8) AND VSBY (NH)

CEILING (FEET)	OR >10	OR >5	OR >2	VSBY (NH) OR >1	OR >1/2	OR >1/4	OR >50YD	OR >0
OR >6500	.8	1.0	1.0	1.1	1.1	1.1	1.1	1.1
OR >5000	1.3	1.6	1.6	1.6	1.6	1.6	1.6	1.6
OR >3500	2.9	3.7	3.8	3.9	3.9	3.9	3.9	3.9
OR >2000	11.4	15.7	16.3	16.4	16.4	16.4	16.4	16.4
OR >1000	23.6	32.7	34.7	34.9	35.1	35.1	35.2	35.2
OR >600	28.0	40.2	43.5	44.0	44.2	44.3	44.3	44.3
OR >300	28.7	41.6	45.5	46.1	46.4	46.5	46.5	46.5
OR >150	28.8	41.8	45.7	46.1	46.7	46.8	46.9	46.9
OR >0	28.9	42.1	46.2	46.9	47.3	47.4	47.5	47.5
TOTAL	3453	5051	5547	5638	5685	5700	5711	5712

TOTAL NUMBER OF OBS: 12181

PCT FREQ NH < 5/8: 53.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	DBSCD	TOTAL OBS
6.5	9.8	15.2	11.3	9.2	8.5	10.5	8.3	19.3	.8	12853	

PERIOD: (PRIMARY) 1933-1970
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NH)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	* .1	*	*	*	*	*	*	*	* .0	* .0	* .3	
ND PCP	* *	*	*	*	*	*	*	*	* .0	* .0	* .1	
TOT %	* .1	* .1	* .1	* .1	* .1	* .1	* .1	* .1	* .0	* .0	* .3	
PCP	* .1	* .1	* .1	* .1	* .1	* .1	* .1	* .1	* .0	* .0	* .5	
ND PCP	* .1	* *	* *	* *	* *	* *	* *	* .1	* .0	* .0	* .3	
TOT %	* .1	* .2	* .1	* .1	* .1	* .1	* .1	* .1	* .0	* .0	* .8	
PCP	* .2	* .2	* .1	* .1	* .1	* .1	* .1	* .1	* .0	* .0	* 1.2	
ND PCP	* *	* .1	* *	* *	* *	* *	* *	* *	* .0	* .0	* .3	
TOT %	* .2	* .3	* .2	* .2	* .2	* .2	* .1	* .1	* .0	* .0	* 1.5	
PCP	* .3	* .5	* .4	* .4	* .3	* .3	* .2	* .2	* .0	* .0	* 2.7	
ND PCP	* .3	* .3	* .2	* .2	* .2	* .2	* .1	* .3	* .0	* .0	* 1.8	
TOT %	* .6	* .8	* .7	* .5	* .4	* .5	* .3	* .5	* .0	* .0	* 4.4	
PCP	* .7	* .7	* .7	* .6	* .5	* .4	* .3	* .5	* .0	* .0	* 4.4	
ND PCP	4.0	2.8	2.8	1.9	1.6	1.7	1.4	3.9	* .0	* .1	20.2	
TOT %	4.7	3.5	3.4	2.5	2.1	2.1	1.6	4.4	* .0	* .2	24.6	
PCP	* .4	* .2	* .3	* .2	* .2	* .1	* .2	* .3	* .0	* .0	* 1.8	
ND PCP	14.1	9.3	9.1	6.7	5.3	5.1	4.4	11.6	* .0	* .9	66.5	
TOT %	14.4	9.6	9.3	6.9	5.5	5.3	4.6	11.9	* .0	* .9	68.3	
TOT OBS	31121											
TOT PCT	20.2	14.3	13.9	10.2	8.2	8.3	6.7	17.0	* .0	* 1.1	100.0	

PERIOD: (PRIMARY) 1933-1970
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TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	*	*	*	.0	.0	*	*	
	4-10	*	*	*	*	*	*	*	*	.0		.2	
	11-21	*	*	*	*	*	*	*	*	.0		.2	
	22+	*	*	*	*	*	*	*	*	.0		.1	
	TOT %	.1	.1	.1	.1	*	.1	.1	.1	.0	*	.6	
1/2<1	0-3	*	*	*	*	.0	*	*	*	.0	*	.1	
	4-10	*	*	*	*	*	*	*	*	.0		.2	
	11-21	.1	*	*	*	*	.1	*	*	.0		.3	
	22+	*	*	.1	*	*	*	*	.1	.0		.3	
	TOT %	.2	.1	.2	.1	.1	.1	*	.2	.0	*	.9	
1<2	0-3	*	*	*	*	*	*	*	*	.0	*	.1	
	4-10	.1	.1	.1	.1	.1	.1	.1	.1	.0		.5	
	11-21	.1	.1	.1	.1	.1	.1	.1	.1	.0		1.0	
	22+	.1	.1	.1	.1	.1	*	*	.1	.0		.7	
	TOT %	.4	.3	.4	.2	.2	.2	.2	.3	.0	*	2.2	
2<5	0-3	*	*	*	*	*	*	*	*	.0	.1	.3	
	4-10	.3	.3	.2	.2	.2	.2	.2	.2	.0		1.8	
	11-21	.5	.4	.4	.3	.3	.3	.2	.4	.0		2.8	
	22+	.3	.3	.2	.2	.2	.2	.2	.3	.0		1.9	
	TOT %	1.2	1.1	1.0	.8	.7	.7	.5	.9	.0	.1	6.9	
5<10	0-3	.1	.1	.1	.1	.1	.1	.1	.1	.0	.2	1.0	
	4-10	1.2	1.1	1.0	.8	.7	.6	.6	1.0	.0		6.9	
	11-21	2.1	1.5	1.5	1.1	.9	1.0	.6	1.7	.0		10.5	
	22+	1.0	.5	.6	.4	.4	.3	.3	1.4	.0		4.9	
	TOT %	4.4	3.4	3.3	2.4	2.0	2.0	1.3	4.1	.0	.2	23.3	
10+	0-3	.4	.5	.4	.4	.4	.4	.3	.4	.0	1.0	4.3	
	4-10	5.1	4.3	3.9	3.3	2.7	2.4	2.0	3.8	.0		27.5	
	11-21	6.4	3.8	4.0	2.5	1.9	2.0	1.6	5.0	.0		27.2	
	22+	2.1	.7	.7	.4	.2	.3	.5	2.3	.0		7.1	
	TOT %	14.0	9.2	9.0	6.6	5.3	5.1	4.4	11.5	.0	1.0	66.1	
TOT OBS													33586
TOT PCT		20.2	14.2	13.9	10.2	8.2	8.2	6.7	17.0	.0	1.3	100.0	

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TABLE 10
PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.7	.4	2.2	9.3	20.1	12.9	2.4	.6	.2	.6	49.3	50.7	3308
06009	.3	.4	2.6	10.2	18.8	13.1	2.3	.6	.5	.5	49.3	50.7	3230
12015	.8	.3	2.1	8.0	16.5	11.4	2.0	.2	.7	.6	42.6	57.4	3008
18021	.8	.2	1.7	8.4	18.1	11.8	2.1	.7	.4	.7	44.9	55.1	2973
TOT	80	40	270	1112	2281	1510	267	71	56	73	5760	6759	12519
PCT	.6	.3	2.2	9.0	18.4	12.3	2.2	.6	.4	.6	46.7	59.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.4	.3	.9	4.5	18.2	75.7	3221
06009	.3	.6	.8	5.2	18.4	74.8	3153
12015	.3	.4	1.0	5.1	22.2	71.1	2945
18021	.2	.4	.9	4.4	22.7	71.4	2900
TOT	36	53	108	591	2466	8965	12219
PCT	.3	.4	.9	4.8	20.3	73.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH > 4/8), BY HOUR

HOUR (GMT)	<150 CEILING HGT	<500 CEILING HGT	<1000 CEILING HGT	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	.9	3.8	16.1	34.9	49.0	3221
06009	.7	4.2	17.0	33.9	49.1	3153
12015	1.4	4.0	15.4	29.2	55.5	2945
18021	1.2	3.6	14.8	32.2	53.0	2900
TOT	129	480	1930	3919	6370	12219
PCT	1.0	3.9	15.9	32.6	51.5	100.0

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TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	.0	.0	.0	.0	.0	5	*
90/94	.0	.0	.0	.0	.2	.1	.1	.3	44	.4
85/87	.0	*	*	*	.4	2.1	1.6	*	526	4.4
80/84	.0	*	*	.2	1.0	3.9	10.0	3.9	2271	19.0
75/79	.0	.0	.1	.8	2.4	3.4	3.8	3.8	1680	14.3
70/74	*	.0	.2	1.4	3.7	4.5	4.7	4.2	2118	18.8
65/69	.0	*	.4	1.8	2.9	3.2	3.3	2.2	1455	13.7
60/64	.0	*	.3	1.7	3.4	3.2	2.4	1.4	1263	12.5
55/59	.0	.1	.4	1.6	3.1	2.8	1.2	.6	949	9.8
50/54	.0	.0	.1	1.1	2.0	1.2	.7	.4	521	5.5
45/49	.0	.0	*	.1	.4	.4	.3	*	126	1.3
40/44	.0	.0	.0	.0	.1	*	*	*	12	.1
35/39	.0	.0	.0	.0	*	*	*	*	5	.1
TOTAL	1	13	164	929	2091	2722	3170	1885	10975	100.0
PCT	.1	.1	1.6	8.8	19.6	24.9	28.2	16.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
95/99	.0	*	*	*	.0	.0	.0	*	.0	.0
90/94	.2	.1	*	*	*	.1	*	*	.0	*
85/87	1.1	.5	.8	.7	.7	.8	.3	.2	.0	.1
80/84	1.7	1.8	3.3	3.1	3.0	3.7	1.6	.9	.0	.5
75/79	2.9	3.3	3.0	1.5	1.8	1.8	1.1	1.0	.0	.2
70/74	2.8	2.0	1.8	2.3	1.9	1.5	1.5	2.1	.0	.3
65/69	3.5	2.0	1.5	1.4	1.2	.8	1.1	2.4	.0	.2
60/64	3.6	1.5	.4	.1	.4	.4	1.0	2.9	.0	.2
55/59	2.7	.5	.1	*	.1	.2	.7	3.1	.0	.1
50/54	.7	*	*	*	*	*	.3	2.3	.0	.0
45/49	*	*	.0	.0	.0	.0	.1	.5	.0	.0
40/44	*	*	.0	.0	.0	.0	*	.1	.0	.0
35/39	*	*	.0	.0	.0	.0	*	*	.0	.0
TOTAL	18.8	14.2	13.7	9.9	9.0	9.3	7.8	15.7	.0	1.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0003	96	81	78	70	62	58	34	70.1	9.59
0609	96	81	78	70	62	58	34	70.4	82.6
1215	91	79	76	69	61	57	37	68.8	9981
1821	91	78	75	69	60	57	36	68.2	8619
TOT	96	80	77	69	61	57	34	69.4	36035

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0003	*	9.5	19.4	26.0	28.6	16.4	77	2960
0609	.0	12.3	23.0	27.5	24.0	13.2	75	2752
1215	.0	11.1	17.7	24.0	29.3	17.8	77	2675
1821	.0	8.9	18.2	22.6	30.6	19.7	78	2674
TOT	.	1110	2102	2753	3193	1902	77	11061

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TEMP DIF	33	36	37	40	41	44	45	48	49	52	53	56	57	60	61	64	65	69	72	73	76	77	80	81	84	85	88	89	92	TOT	M	WD
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
-1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
-5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
-7/-8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
-9/-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
-11/-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
-14/-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
-17/-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
-20/-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
-23/-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
-26/-30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	4	26	37	40	41	44	45	48	49	52	53	56	57	60	61	64	65	69	72	73	76	77	80	81	84	85	88	89	92	20984	210	29374
PCT	.1	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3

ANNUAL
TABLE 16

PERIOD: (OVER-ALL) 1963-1970

AREA 0008 YAKU SHIMA
29.9N 129.9E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N				NE				48+	PCT
	1-3	4-10	11-21	22-33	34-47	48+	11-21	22-33		
<1	.2	.6	.1	.0	.0	.0	.1	.0	.0	1.0
1-2	.1	2.2	1.8	.0	.0	.0	1.4	.0	.0	3.8
3-4	#	1.7	3.8	.6	.0	.0	2.6	.0	.0	4.6
5-6	#	.4	2.4	.8	#	.0	2.0	.5	.0	2.8
7	.0	.1	1.2	.8	#	.0	.9	.4	#	1.4
8-9	.0	.0	.3	.5	#	.0	.2	.3	.0	.6
10-11	.0	.0	.1	.5	.1	.0	.2	.2	.0	.3
12	.0	.0	.1	.2	.0	.0	.0	.1	.0	.1
13-16	.0	.0	.0	.2	.1	.0	.0	.1	.0	.2
17-19	.0	.0	.0	#	#	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	#
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	#
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	5.0	9.8	3.6	.4	#	7.3	1.9	.2	15.0

HGT	E				SE				48+	PCT
	1-3	4-10	11-21	22-33	34-47	48+	11-21	22-33		
<1	.1	.6	.1	.0	.0	.0	.0	.0	.0	.8
1-2	.1	2.2	1.5	.0	.0	.0	.0	.0	.0	2.5
3-4	.1	1.5	3.0	.4	.0	.0	.9	.2	.0	3.2
5-6	#	.4	1.7	.3	#	.0	1.0	.2	.0	1.4
7	.0	#	.9	.5	.1	.0	.5	.3	.0	.3
8-9	.0	#	.1	.4	.0	.0	.1	.2	.0	.3
10-11	.0	#	.1	.1	.2	.0	.0	.1	.0	.1
12	.0	.0	#	.1	#	.0	.0	.0	.0	.1
13-16	.0	.0	.0	.1	.0	.0	.0	.0	.0	#
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	4.8	7.6	1.7	.4	.0	4.3	1.0	.2	9.2

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.3	*	.0	.0	.0	.6	.2	.4	.0	.0	.0	.0	.6
1-2	.1	1.5	1.0	.0	.0	.0	2.5	.1	1.4	1.5	.0	.0	.0	2.9
3-4	*	.9	2.1	.2	.0	.0	3.2	*	.6	2.0	.4	.0	.0	2.9
5-6	*	.2	.8	.2	.1	.0	1.2	.0	.1	1.1	.2	.0	.0	1.5
7	.0	*	.3	.1	.0	.0	.4	.0	.1	.5	.3	.0	.0	.9
8-9	.0	.0	*	.1	*	.0	.2	.0	*	.1	.1	*	.0	.3
10-11	.0	.0	.0	.1	*	.0	.1	.0	.0	.1	.1	.0	*	.1
12	.0	.0	.0	*	.0	.0	.1	.0	.0	*	.1	.0	.0	.1
13-16	.0	.0	.0	*	.0	.0	*	.0	.0	*	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	2.9	4.1	.7	.1	.0	8.2	.3	2.7	5.1	1.3	*	*	9.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.4	.1	.0	.0	.0	.5	.1	.5	*	.0	.0	.0	.1
1-2	.1	1.2	.7	.0	.0	.0	2.0	.1	1.9	1.4	.0	.0	.0	.6
3-4	*	.6	1.1	.2	.0	.0	1.9	.0	1.3	2.6	.4	.0	.0	3.4
5-6	.0	.2	.8	.3	*	.0	1.3	*	.3	1.8	.6	*	.0	4.3
7	.0	*	.4	.3	.1	.0	.8	.0	.1	.9	.8	.1	.0	2.8
8-9	.0	*	*	.2	*	.0	.3	.0	.1	.3	.1	.1	.0	1.9
10-11	.0	.0	*	.1	*	.0	.2	.0	*	.1	.4	.1	.0	1.2
12	.0	.0	*	.1	*	.0	.1	.0	.0	.1	.3	.1	.0	.6
13-16	.0	.0	.0	.0	.0	.0	.1	.0	.0	*	.1	.1	.0	.4
17-19	.0	.0	.0	.0	.0	.0	.1	.0	.0	*	.1	.1	.0	.3
20-22	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*	*	.0	.1
23-25	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*	*	.0	.1
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	.0	.1
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.4	3.2	1.4	.3	*	7.6	.3	4.1	7.2	3.6	.6	*	15.8

AREA 0008 YAKU SHIMA
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ANNUAL

PERIOD: (OVER-ALL) 1963-1970

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)						TOT OBS
	0-3	4-10	11-21	22-33	34-47	48+	
<1	3.1	4.2	.5	.0	.0	.0	7.7
1-2	.9	14.3	9.8	.0	.0	.0	25.1
3-4	.3	9.1	18.9	2.7	.0	.0	30.9
5-6	.1	2.1	11.6	3.0	.2	.0	16.9
7	*	.4	5.5	3.4	.3	*	9.7
8-9	.0	.1	1.1	2.6	.3	*	4.1
10-11	.0	.1	.5	1.6	.3	*	2.5
12	.0	.0	.2	.8	.2	*	1.3
13-16	.0	.0	.1	.7	.4	.0	1.2
17-19	.0	.0	.0	.1	.1	*	.2
20-22	.0	.0	.0	*	.1	.0	.2
23-25	.0	.0	.0	.1	.1	.1	.1
26-32	.0	.0	.0	*	.1	.0	.1
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	4.4	30.2	48.1	14.9	2.2	.2	100.0
							6046

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	2.2	13.0	18.2	7.3	2.7	1.2	.4	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4480	3
6-7	*	1.6	7.3	9.0	5.3	2.2	1.1	.6	.5	*	.1	*	*	*	*	*	*	*	*	.0	2745	5
8-9	*	.3	1.2	2.4	3.4	1.7	1.0	.5	.5	.1	.1	.1	*	*	*	*	*	*	.0	.0	1129	6
10-11	.0	.2	.3	.6	.8	.9	.6	.3	.3	.1	.1	.1	*	*	*	*	*	*	.0	.0	427	8
12-13	.0	.0	.3	.1	.1	.2	.2	.2	.2	.2	*	.1	.1	.1	*	*	*	*	.0	.0	149	11
>13	.0	.0	.0	.0	.0	.0	.1	.2	.2	*	.1	.1	*	*	*	*	*	*	.0	.0	69	13
INDET	3.1	1.7	1.9	1.0	.6	.2	.2	.2	.1	*	*	*	*	*	*	*	*	*	.0	.0	892	3
TOTAL	534	1675	2902	2037	1268	625	349	199	187	32	36	26	23	.0	.0	.0	.0	.0	.0	.0	9891	5
PCT	5.3	16.8	29.3	20.5	12.9	6.4	3.6	2.0	1.9	.3	.4	.3	.2	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1856-1970

TABLE 20

AREA 0008 YAKU SHIMA
29.9N 129.9E

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
85/86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
83/84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
81/82	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
79/80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
77/78	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
75/76	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
73/74	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71/72	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
69/70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
67/68	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
65/66	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
63/64	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61/62	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
59/60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
57/58	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
55/56	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
53/54	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
51/52	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49/50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
47/48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
45/46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
43/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	2877	2784	3324	3134	3041	2981	2782	2750	2806	2950	2735	2485	34649	100.0
MEAN	66.0	65.5	66.4	69.3	73.1	76.7	81.5	82.5	81.1	77.4	73.4	69.4	73.5	

PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1856-1970

AREA 0008 YAKU SHIMA
29.9N 129.9E

TABLE 21

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1020	1019	1019	1019	1020	1020	1020	1019	1019	2566
FEB	1020	1018	1018	1017	1020	1018	1019	1017	1018	2549
MAR	1018	1016	1017	1015	1017	1016	1016	1016	1016	3011
APR	1016	1014	1015	1013	1015	1014	1015	1013	1014	2863
MAY	1012	1011	1011	1011	1012	1012	1011	1011	1011	2758
JUN	1009	1008	1008	1007	1008	1008	1008	1007	1008	2703
JUL	1010	1009	1009	1007	1009	1008	1009	1008	1009	2620
AUG	1009	1008	1007	1008	1008	1008	1007	1008	1008	2459
SEP	1011	1010	1009	1009	1011	1010	1010	1010	1010	2526
OCT	1016	1016	1015	1015	1016	1015	1015	1014	1015	2701
NOV	1019	1018	1017	1017	1019	1018	1018	1018	1018	2479
DEC	1021	1020	1019	1019	1020	1020	1020	1019	1020	2286
ANN	1015	1014	1014	1013	1015	1014	1014	1013	1014	31523
OBS	3142	4317	3086	4599	2894	5537	2940	5008		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	1001	1005	1011	1016	1020	1023	1027	1031	1036
FEB	994	1002	1009	1015	1019	1022	1026	1029	1034
MAR	998	1002	1007	1013	1016	1020	1025	1028	1032
APR	998	1002	1006	1011	1014	1017	1022	1024	1029
MAY	991	999	1004	1008	1012	1014	1018	1021	1027
JUN	989	996	1000	1006	1008	1011	1014	1017	1020
JUL	983	994	1000	1006	1009	1012	1015	1017	1020
AUG	971	989	997	1005	1009	1012	1015	1017	1022
SEP	972	993	1000	1008	1011	1013	1017	1020	1026
OCT	978	999	1007	1012	1016	1018	1022	1025	1031
NOV	1000	1005	1010	1016	1018	1021	1025	1027	1033
DEC	1002	1009	1012	1017	1020	1023	1027	1030	1034

JANUARY

PERIOD: (PRIMARY) 1936-1970
(OVER-ALL) 1869-1970

AREA 0009 ANAHU O SHIMA
27.9N 129.4E

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN SHWR	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN DBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL DBS
				FRZG	SNOW	OTHER PCPN					PCPN	FOG	SMOKE	DUST	NO	
N	2.4	.8	.5	.0	.0	.0	.0	.0	3.6	.0	.0	.0	.1	.0	29.7	
NE	1.3	.1	.3	.0	.0	.0	.0	.0	1.7	.0	.0	.0	.0	.0	12.4	
E	1.0	.1	.2	.0	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	7.2	
SE	.4	.0	.1	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	4.0	
S	.3	.2	.1	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	4.1	
SW	.5	.*	.0	.0	.0	.0	.0	.0	.6	.1	.0	.0	.0	.0	3.4	
W	1.2	.2	.1	.0	.0	.0	.0	.0	.5	.1	.0	.0	.0	.0	5.3	
NW	1.2	.5	.4	.0	.0	.0	.0	.0	2.1	.0	.1	.0	.0	.0	22.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	
TOT DBS	132	36	31	0	0	0	0	0	198	.3	1	5	0	0	1619	1826
TOT PCT	7.2	2.0	1.7	.0	.0	.0	.0	.0	10.8	.2	.1	.3	.0	.0	88.7	

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN DBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL DBS
				FRZG	SNOW	OTHER PCPN					PCPN	FOG	SMOKE	DUST	NO	
0003	5.8	2.3	1.6	.0	.0	.0	.0	9.8		.0	.2	.5	.0	.0	89.5	
0609	6.3	1.9	1.2	.0	.0	.0	.0	9.4		.0	.0	.5	.0	.0	90.2	
12015	7.8	1.1	2.0	.0	.0	.0	.0	10.8		.4	.0	.0	.0	.0	88.9	
18021	8.9	2.7	1.8	.0	.0	.0	.0	13.5	199	.2	.0	.2	.0	.0	86.0	
TOT	133	36	31	0	0	0	0	10.9		3	1	5	0	0	1625	1833
PCT	7.3	2.0	1.7	.0	.0	.0	.0	10.9		.2	.1	.3	.0	.0	88.7	

JANUARY

PERIOD: (PRIMARY) 1936-1970
(OVER-ALL) 1869-1970

AREA 0009 AMAMI O SHIMA
27.9N 129.4E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)					18	21
	0-3	4-10	11-21	22-33	34-47	48+	00	03	06	09				12	15					
N	.4	8.9	17.5	6.6	.3	*	33.6	15.6	27.8	31.2	30.6	41.4	33.4	32.4	32.0	44.3				
NE	.5	5.7	6.7	1.2	.0	*	14.1	12.5	15.7	13.9	16.8	9.4	13.0	16.6	12.5	14.3				
E	.2	4.1	3.3	.6	.0	*	8.3	11.7	8.5	6.7	8.1	8.5	9.2	10.2	6.4	8.3				
SE	.2	2.3	1.7	.3	.0	*	4.6	11.3	4.1	2.4	5.6	3.4	4.9	4.9	6.3	4.0				
S	.4	2.1	1.6	.4	.1	.0	4.6	11.7	4.9	4.7	4.7	3.5	3.6	5.3	3.6	4.0				
SW	.4	1.7	1.6	.3	*	.0	4.0	11.4	4.9	3.8	6.0	3.2	5.2	2.6	3.5	2.1				
W	.3	1.8	2.3	1.1	.3	*	5.9	15.8	7.6	4.9	6.4	3.7	7.8	5.9	6.3	3.1				
NW	.5	5.0	11.3	6.6	.8	*	24.3	17.6	26.6	31.3	20.9	26.3	22.6	21.0	26.0	19.9				
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
CALM	.7	638	929	346	31	3	2020	.7	.0	1.2	.8	.5	.3	1.0	1.4	.0				
TOT OBS	73	638	929	346	31	3	2020		241	251	249	210	304	296	282	187				
TOT PCT	3.6	31.6	46.0	17.1	1.5	.1	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-6	7-16	17-27	28-40	00					03	06	09	12	15	18	21	
N	3.0	15.4	13.4	1.8	*	33.6	15.6	33.6	29.5	33.6	32.0	30.6	41.4	33.4	32.4	32.0	44.3
NE	2.2	8.2	3.6	.1	*	14.1	12.5	14.1	14.8	13.9	16.8	12.5	9.4	13.0	16.6	12.5	14.3
E	1.5	5.2	1.5	.1	*	8.3	11.7	8.3	7.6	6.7	8.1	8.5	9.2	10.2	6.4	8.3	6.4
SE	1.1	2.6	.9	*	.0	4.6	11.3	4.6	3.3	2.4	5.6	3.4	4.9	4.9	6.3	4.0	4.0
S	1.2	2.4	.8	.2	.0	4.6	11.7	4.6	4.0	4.7	4.7	3.5	3.6	5.3	3.6	4.0	4.0
SW	1.0	2.3	.7	*	.0	4.0	11.4	4.0	4.9	3.8	6.0	3.2	5.2	2.6	3.5	2.1	2.1
W	.9	2.7	1.5	.7	.1	5.9	15.8	5.9	6.3	4.9	6.4	3.7	7.8	5.9	6.3	3.1	3.1
NW	1.9	9.3	9.3	3.6	.1	24.3	17.6	24.3	29.5	31.3	20.9	26.3	22.6	21.0	26.0	19.9	19.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.7	638	929	346	31	.7	14.7	.7	.0	1.2	.8	.5	.3	1.0	1.4	.0	.0
TOT OBS	271	972	630	132	7	2020		100.0	492	492	492	492	492	492	492	492	492
TOT PCT	13.4	48.1	31.6	6.5	.3				100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

JANUARY

PERIOD (OBSERVATION) 1920-1970
(OVERALL) 1920-1970

AREA 0000 ANAMI 3.5 NIMA
2.0 N 100.0 E

TABLE

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (AMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			MEAN	PCT	TOTAL
				11-21	22-33	34-47			
0000	0	2.7	27.6	47.8	19.7	1.2	10	100.0	496
0600	0	2.6	29.6	45.5	19.7	2.0	14	100.0	496
1200	0	2.7	29.0	45.0	19.2	1.7	10	100.0	496
1800	0	1.5	29.4	45.7	19.2	1.3	10	100.0	496
TOT	14	24	238	429	246	31	3	100.0	2020
PCT	1.7	2.9	29.6	46.0	17.1	1.9	1.1	100.0	

TABLE 5

PCT AREA OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-10	TOTAL
					UBSCU OBS
N	3.2	4.2	14.3	9.2	
NE	2.6	2.1	5.1	4.4	
E	1.7	1.4	2.7	3.3	
SE	1.9	1.0	1.0	1.0	
S	1.4	1.4	1.4	1.4	
SW	1.9	1.4	1.7	2.0	
W	1.5	3.7	2.0	1.7	
NW	2.5	3.3	11.2	6.5	
VAR	0.0	0.0	0.0	0.0	
CALM	1.3	1.2	1.1	1.0	
TOT OBS	144	154	426	301	1027
TOT PCT	14.0	15.0	41.7	29.3	100.0

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/MH 20/0)
AND OCCURRENCE OF NM 49/0 BY WIND DIRECTION

WIND DIR	CEILING HEIGHTS (FT/MH 20/0)										TOTAL
	000	100	200	300	400	500	600	700	800	900	
N	1.2	1.1	1.5	3.4	3.4	3.4	3.4	3.4	3.4	3.4	10.0
NE	1.2	1.1	1.5	3.4	3.4	3.4	3.4	3.4	3.4	3.4	10.0
E	1.2	1.1	1.5	3.4	3.4	3.4	3.4	3.4	3.4	3.4	10.0
SE	1.2	1.1	1.5	3.4	3.4	3.4	3.4	3.4	3.4	3.4	10.0
S	1.2	1.1	1.5	3.4	3.4	3.4	3.4	3.4	3.4	3.4	10.0
SW	1.2	1.1	1.5	3.4	3.4	3.4	3.4	3.4	3.4	3.4	10.0
W	1.2	1.1	1.5	3.4	3.4	3.4	3.4	3.4	3.4	3.4	10.0
NW	1.2	1.1	1.5	3.4	3.4	3.4	3.4	3.4	3.4	3.4	10.0
VAR	1.2	1.1	1.5	3.4	3.4	3.4	3.4	3.4	3.4	3.4	10.0
CALM	1.2	1.1	1.5	3.4	3.4	3.4	3.4	3.4	3.4	3.4	10.0
TOT OBS	144	154	426	301	301	301	301	301	301	301	1027
TOT PCT	14.0	15.0	41.7	29.3	29.3	29.3	29.3	29.3	29.3	29.3	100.0

PERIOD: (PRIMARY) 1936-1970
(OVER-ALL) 1869-1970

JANUARY

AREA 0009 AMAMI O SHIMA
27.9N 129.4E

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH > 4/8) AND VSBY (NH)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.6	.6	.6	.6	.6	.6	.6	.6
= OR >5000	1.2	1.4	1.4	1.4	1.4	1.4	1.4	1.4
= OR >3500	3.7	5.6	5.7	5.7	5.7	5.7	5.7	5.7
= OR >2000	17.1	23.3	24.1	24.1	24.1	24.1	24.1	24.1
= OR >1000	32.4	45.9	48.3	48.3	48.3	48.3	48.3	48.3
= OR >600	37.4	53.9	58.0	58.1	58.2	58.2	58.2	58.2
= OR >300	37.8	54.9	59.2	59.2	59.4	59.4	59.4	59.4
= OR >150	37.8	55.0	59.6	59.6	59.9	59.9	59.9	59.9
= OR > U	38.0	55.4	60.4	60.6	60.7	60.7	60.8	60.8
TOTAL	388	565	616	618	619	620	620	620

TOTAL NUMBER OF OBS: 1020

PCT FREQ NH < 5/8: 39.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	9	TOTAL OBS
2.4	5.6	11.0	9.5	10.1	10.6	15.7	11.6	22.5	1.0	1064	

PERIOD: (PRIMARY) 1936-1970
(OVER-ALL) 1869-1970

JANUARY

AREA 0009 ANANT D SHIMA
27.9N 129.4E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	.0	*	*	.0	.1	.0	.0	.0	.0	.0	.1	
ND PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT %	.0	*	*	.0	.1	.0	.0	.0	.0	.0	.1	
PCP	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.2	
ND PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT %	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.2	
PCP	.4	.1	*	*	.1	.0	.1	.0	.0	.0	.7	
ND PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
TOT %	.4	.2	.1	*	.1	.0	.1	.0	.0	.0	.8	
PCP	.6	.7	.2	.1	.1	.3	.2	.4	.0	.0	2.6	
ND PCP	.7	.1	*	.1	.1	.2	.4	1.1	.0	.0	2.7	
TOT %	1.4	.8	.3	.2	.3	.4	.6	1.4	.0	.0	5.3	
PCP	1.4	.5	.4	.2	.2	.2	.1	.7	.0	.0	3.8	
ND PCP	7.5	2.1	1.5	1.1	.8	.8	1.9	6.0	.0	.1	21.7	
TOT %	8.9	2.7	1.9	1.2	1.0	1.0	2.0	6.7	.0	.1	25.6	
PCP	1.2	.3	.4	.1	.2	.1	.1	1.1	.0	.0	3.5	
ND PCP	21.6	10.1	5.7	2.9	3.2	2.5	3.1	15.0	.0	.5	64.6	
TOT %	22.8	10.4	6.1	3.0	3.4	2.6	3.2	16.1	.0	.5	68.0	
TOT OBS	33.4	14.2	8.5	4.5	4.8	4.0	5.8	24.2	.0	.5	100.0	1823

PERIOD: (PRIMARY) 1936-1970
(OVER-ALL) 1869-1970

JANUARY

AREA 0009 ANAMI O CHIMA
27.9N 129.4E

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	.1	*	*	.0	.1	.1	.0	.1	.0	.0	.2	
	22+	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.2	*	*	.0	.1	.1	.0	.1	.0	.0	.4	
1/2<1	0-3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.1	*	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.3	
1<2	0-3	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.1	
	4-10	.2	.1	.1	.0	.0	.0	.0	.2	.0	.0	.4	
	11-21	.3	.1	.1	.0	.0	.0	.1	.1	.0	.0	.6	
	22+	.1	.1	*	*	.1	.0	.0	.0	.0	.0	.3	
	TOT %	.6	.2	.1	*	.1	.1	.1	.2	.0	.1	1.5	
2<5	0-3	*	.1	.0	.0	.0	.0	.1	.0	.0	.0	.2	
	4-10	.5	.1	.1	.1	.2	.1	.3	.4	.0	.0	1.9	
	11-21	.9	.7	.1	.1	.1	.2	*	.8	.0	.0	2.9	
	22+	.5	.2	.1	.0	*	.1	.3	.7	.0	.0	1.8	
	TOT %	2.0	1.1	.3	.2	.3	.5	.7	1.8	.0	.0	6.9	
5<10	0-3	.1	.1	.1	.1	.1	.0	.0	.2	.0	.1	.7	
	4-10	1.7	.8	.7	.6	.4	.5	.6	1.3	.0	.0	6.5	
	11-21	4.5	1.2	.8	.4	.3	.5	.9	2.5	.0	.0	11.1	
	22+	2.3	.5	.2	.1	.2	.1	.6	2.4	.0	.0	6.5	
	TOT %	8.6	2.7	1.8	1.2	1.0	1.0	2.0	6.4	.0	.1	24.8	
10+	0-3	.2	.3	.1	.2	.3	.3	.2	.3	.0	.5	2.4	
	4-10	6.5	4.8	3.2	1.5	1.3	1.1	.9	3.1	.0	.0	22.6	
	11-21	12.0	4.6	2.4	1.2	1.3	.9	1.3	7.7	.0	.0	31.3	
	22+	3.6	.5	.3	.1	.2	.2	.7	4.4	.0	.0	9.8	
	TOT %	22.2	10.2	6.0	3.0	3.3	2.4	3.1	15.5	.0	.5	66.2	
TOT OBS		33.6	14.2	8.4	4.4	4.7	4.0	6.0	24.1	.0	.6	100.0	1909
TOT PCT													

PERIOD: (PRIMARY) 1936-1970
(OVER-ALL) 1869-1970

JANUARY

AREA 0009 ANAMI O SHIMA
27.9N 129.4E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	350 999	400 1999	450 3499	500 6499	550 7999	6000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.8	.8	.8	13.6	25.6	16.4	7.6	.8	.4	.0	66.8	33.2
06009	.4	.0	.8	7.0	27.9	23.6	4.3	.8	.4	.0	65.1	34.9
12015	.4	1.1	1.1	9.8	18.4	20.3	3.0	.4	.0	.4	54.9	45.1
18021	1.9	.0	2.3	9.1	25.0	12.5	2.3	1.1	.8	.4	55.3	44.7
TOT	9	5	13	102	251	189	44	8	4	2	627	411
PCT	.9	.5	1.3	9.8	24.2	18.2	4.2	.8	.4	.2	60.4	39.6
												100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.4	.0	.0	6.0	20.1	73.5	249
06009	.0	.4	.4	3.5	20.4	75.3	255
12015	.0	.0	.8	6.1	26.4	66.7	261
18021	.0	.0	.4	6.6	23.3	69.6	257
TOT	1	1	4	57	231	728	1022
PCT	.1	.1	.4	5.6	22.6	71.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.8	2.4	19.3	47.6	32.9	249
06009	.4	1.6	10.6	54.9	34.5	255
12015	1.1	3.4	16.1	40.6	43.3	261
18021	2.3	4.3	16.7	40.1	43.2	257
TOT	12	30	160	468	394	1022
PCT	1.2	2.9	15.7	45.8	38.6	100.0

JANUARY

PERIOD: (PRIMARY) 1936-1970
(OVER-ALL) 1869-1970

AREA 0009 AHAMI D SHIMA
27.9N 129.4E

TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100			
75/79	.0	.0	.0	.1	.1	.0	.1	1.0	.3		
70/74	.0	.0	.0	.1	.4	.5	2.1	2.7	2.1		
65/69	.0	.0	.0	.5	2.1	4.8	6.0	5.2	1.6		
60/64	.0	.0	1.4	7.3	11.1	9.5	5.7	3.0			
55/59	.0	.0	.5	4.1	8.3	8.5	3.5	1.2			
50/54	.0	.0	.0	.4	1.4	1.8	1.4	.6			
45/49	.0	.0	.0	.0	.0	.1	.3	.1	.0		
TOTAL	0	0	21	111	203	218	152	67			
PCT	.0	.0	2.7	14.4	26.3	28.2	19.7	8.7			

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP												
N	NE	E	SE	S	SW	W	NW	VAR	CALM			
.4	.0	.0	.3	.2	.6	.2	.1	.0	.0			
.7	.7	.5	.9	1.9	1.5	.8	.6	.0	.0			
3.6	3.3	3.7	1.7	1.5	1.3	2.4	2.8	.0	.2			
14.2	6.4	3.6	1.8	.9	.9	2.0	7.9	.0	.1			
13.6	2.9	.3	.2	.0	.2	1.4	7.6	.0	.3			
1.8	.4	.0	.0	.0	.0	.7	3.2	.0	.0			
.1	.0	.0	.0	.0	.0	.0	.4	.0	.0			
34.5	13.5	8.0	4.8	4.4	4.2	7.4	22.5	.0	.6			

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR												
HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS			
00003	79	77	72	61	52	47	45	61.4	470			
06009	79	77	72	61	52	46	39	61.8	457			
12015	79	76	72	61	54	46	43	61.7	591			
18021	75	72	70	61	52	45	41	60.6	465			
TOT	79	76	71	61	52	46	39	61.4	1983			

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR												
HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS				
00003	.0	16.1	24.7	29.9	18.4	10.9	73	174				
06009	.0	22.2	27.0	24.3	18.4	8.1	70	185				
12015	.0	15.0	30.8	26.6	18.7	8.9	72	214				
18021	.0	16.3	22.2	32.0	22.7	6.9	72	203				
TOT	0	134	204	219	152	67	72	776				

PERIOD: (PRIMARY) 1925-1970
(OVER-ALL) 1869-1970

JANUARY

AREA 0009 AHAMI O SHIMA
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TABLE 17
PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	37	41	45	49	53	57	61	65	69	73	77	TOT	W	MO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	3	.0	.2
11/13	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	2	.0	.1
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	2	.0	.1
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.2	3	.0	.3
6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	2	.0	.1
5	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	6	.0	.4
4	.0	.0	.0	.0	.0	.0	.1	.1	.1	.2	.2	10	.0	.6
3	.0	.0	.0	.0	.0	.0	.0	.1	.1	.3	.1	8	.0	.1
2	.0	.0	.0	.0	.0	.0	.0	.5	.5	.4	.1	25	.0	1.1
1	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	.0	6	.0	.4
0	.0	.0	.0	.0	.1	.0	.4	1.1	1.6	.2	.1	59	.0	3.4
-1	.0	.0	.0	.0	.0	.0	.1	.5	.9	.2	.0	29	.0	1.7
-2	.0	.0	.0	.0	.1	.2	1.9	2.5	1.5	.2	.0	107	.1	6.2
-3	.0	.0	.0	.0	.0	.0	.2	.8	1.1	.1	.0	36	.0	2.1
-4	.0	.0	.0	.1	.3	.5	4.2	2.7	.6	.0	.0	144	.0	8.4
-5	.0	.0	.1	.2	.4	1.2	6.0	2.7	.5	.0	.0	187	.0	10.9
-6	.0	.0	.0	.0	.3	.3	1.2	1.3	.2	.0	.0	53	.0	3.1
-7/-8	.0	.0	.0	.1	1.0	3.6	7.8	2.3	.0	.0	.0	253	.0	14.8
-9/-10	.0	.1	.0	.3	1.3	5.0	6.7	.8	.0	.0	.0	242	.0	14.1
-11/-13	.0	.0	.3	1.1	4.8	8.5	3.4	.1	.0	.0	.0	312	.0	18.2
-14/-16	.1	.1	.6	1.0	4.1	3.3	.4	.0	.0	.0	.0	162	.0	9.5
-17/-19	.0	.0	.1	.6	1.4	.2	.0	.1	.0	.0	.0	41	.0	2.4
-20/-22	.0	.0	.2	.5	.1	.1	.1	.0	.0	.0	.0	17	.0	1.0
-23/-25	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.1
<-30	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	1	3	25	64	231	394	553	271	126	31	15	1714	1	1713
PCT	.1	.2	1.5	3.7	13.5	23.0	32.3	15.8	7.4	1.8	.9	100.0	.1	99.9

PERIOD: (OVER-ALL) 1963-1970 JANUARY AREA 0009 AMAMI O SHIMA
27.9N 129.4E

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.0	.0	.0	.0	.4	.2	.8	.0	.0	.0	.0	1.0
1-2	.0	3.0	1.6	.0	.0	.0	4.7	.3	3.4	2.6	.0	.0	.0	6.3
3-4	.0	2.0	6.9	.7	.0	.0	9.7	.0	1.0	1.5	.6	.0	.0	3.2
5-6	.0	1.0	5.4	1.9	.0	.0	8.3	.5	.6	1.3	.2	.0	.0	2.5
7	.0	.0	2.9	1.9	.0	.0	4.8	.0	.0	.6	.3	.0	.0	.8
8-9	.0	.2	2.1	1.9	.0	.0	4.1	.0	.0	.1	.1	.0	.0	.1
10-11	.0	.0	.2	.5	.0	.0	.7	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.2	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.3	.0	.0	.0	.3	.0	.0	.1	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
25-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.7	19.7	7.1	.5	.0	33.9	1.0	5.7	6.1	1.4	.0	.0	14.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.0	.0	.0	.0	.4	.0	.3	.0	.0	.0	.0	.3
1-2	.2	1.9	.7	.0	.0	.0	2.8	.0	.6	.9	.0	.0	.0	1.5
3-4	.0	1.4	2.6	.2	.0	.0	4.1	.0	.2	.6	.0	.0	.0	.8
5-6	.0	.4	1.2	.0	.0	.0	1.6	.0	.0	.2	.2	.0	.0	.2
7	.0	.0	.4	.8	.0	.0	1.2	.0	.0	.1	.2	.0	.0	.3
8-9	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	4.0	4.9	1.2	.0	.0	10.3	.0	1.1	1.7	.3	.0	.0	3.2

PERIOD: (OVER-ALL) 1963-1970

JANUARY

TABLE 18

AREA 0009 ANAMI O SHIMA
27.9N 129.4E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.2	.0	.0	.0	.0	.3	.3	.0	.0	.0	.0	.0	.3
1-2	.0	.3	.6	.0	.0	.0	1.0	.0	.3	.6	.0	.0	.0	1.1
3-4	.0	.4	.8	.0	.0	.0	1.2	.2	.5	.8	.5	.0	.0	2.0
5-6	.0	.0	.0	.0	.2	.0	.2	.0	.2	.2	.0	.0	.0	.5
7	.0	.0	.4	.0	.0	.0	.4	.0	.0	.7	.0	.0	.0	.7
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.5
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.9	1.8	.0	.2	.0	3.1	.5	1.2	2.5	.7	.0	.0	5.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.5	.2	.0	.0	.0	.0	.7
1-2	.4	.2	1.0	.0	.0	.0	1.5	.1	1.8	1.2	.0	.0	.0	3.1
3-4	.2	.5	1.2	.0	.0	.0	1.9	.0	1.5	4.3	1.0	.0	.0	6.8
5-6	.0	.0	.5	.0	.0	.0	.5	.0	.1	2.5	1.5	.2	.0	4.3
7	.0	.0	.8	.7	.0	.2	1.7	.0	.0	.8	1.0	.5	.0	2.3
8-9	.0	.0	.0	.6	.0	.0	.6	.0	.1	.8	1.4	.0	.0	2.2
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.2	.3	.0	.0	.5
12	.0	.0	.0	.0	.2	.0	.3	.0	.0	.1	.7	.1	.0	.8
13-16	.0	.0	.0	.2	.2	.0	.3	.0	.0	.1	.5	.0	.0	.6
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
20-22	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.5	.0	.7
23-25	.0	.0	.0	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	.5
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	.6	3.4	1.6	1.0	.2	7.4	.5	3.6	10.1	6.5	2.0	.0	22.7

PERIOD: (OVER-ALL) 1963-1970

JANUARY

AREA 0009 ANAMI O SHIMA
27.9N 129.4E

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)							TOT OBS
	0-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	1.6	2.3	.0	.0	.0	.0	3.8	
1-2	.9	11.7	9.2	.0	.0	.0	21.8	
3-4	.5	7.4	18.7	2.9	.0	.0	29.2	
5-6	.5	2.3	11.3	3.6	.5	.0	18.0	
7	.0	.0	6.8	5.0	.5	.2	12.4	
8-9	.0	.2	3.2	4.3	.0	.0	7.7	
10-11	.0	.0	.5	1.1	.0	.0	1.6	
12	.0	.0	.2	.9	.5	.0	1.6	
13-16	.0	.0	.5	.7	.2	.0	1.4	
17-19	.0	.0	.0	.2	.2	.0	.5	
20-22	.0	.0	.0	.0	.9	.0	.9	
23-25	.0	.0	.0	.0	.9	.0	.9	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.4	23.9	50.2	18.7	3.6	.2	100.0	
							444	

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.9	10.6	16.4	7.4	3.4	.9	.6	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	920
6-7	.0	2.9	5.5	7.7	5.6	3.0	.5	.6	.5	.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	209
8-9	.0	.1	1.7	3.6	2.2	2.7	1.3	1.3	.8	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	108
10-11	.0	.1	.3	1.0	1.2	1.2	.6	.1	.3	.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	40
12-13	.0	.0	.8	.4	.1	.3	.1	.3	.3	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	20
>13	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	4
INDET	2.5	1.3	2.7	1.0	1.0	.1	.4	.1	.3	.0	.0	.5	.1	.0	.0	.0	.0	.0	.0	.0	73
TOTAL	34	116	210	163	104	63	29	21	17	2	5	5	1	0	0	0	0	0	0	0	770
PCT	4.4	15.1	27.3	21.2	13.5	8.2	3.8	2.7	2.2	.3	.6	.6	.1	.1	.0	.0	.0	.0	.0	.0	100.0

FEBRUARY

PERIOD: (PRIMARY) 1936-1970
(OVER-ALL) 1861-1970

AREA 0009 AMAMI D SHIMA
27.9N 129.4E

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN OBS	OTHER WEATHER PHENOMENA						TOTAL OBS
				FRZG	PCPN	SNOW				THDR LTNG	PCPN	WV	SMOKE	DUST	NO	
N	1.6	.8	.8	.0	.0	.0	.0	3.1		.0	.1	.0	.0	.0	25.4	
NE	1.4	.2	.5	.0	.0	.0	.0	2.1		.0	.1	.0	.0	.0	11.8	
E	1.3	.0	.1	.0	.0	.0	.0	1.4		.0	.0	.0	.0	.0	7.7	
SE	.8	.1	.2	.0	.0	.0	.0	1.1		.0	.0	.0	.0	.0	7.3	
S	.7	.2	.2	.1	.0	.0	.0	1.6		.0	.0	.0	.0	.0	6.1	
SW	.4	.2	.1	.0	.0	.0	.0	.8		.1	.0	.0	.0	.0	4.8	
W	.5	.1	.1	.0	.0	.0	.0	.6		.0	.0	.0	.0	.0	3.8	
NW	1.1	.9	.5	.0	.0	.0	.0	2.4		.0	.0	.0	.0	.0	19.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
TOT OBS	132	40	41	2	0	0	0	.0	213	.1	3	0	0	0	.9	1694
TOT PCT	7.8	2.4	2.4	.1	.0	.0	.0	12.6		.1	.2	.0	.0	.0	87.2	

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE				HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA						TOTAL OBS
				FRZG PCPN	SNOW	OTHER FRZN PCPN	WV PCPN					FOG NO	SMOKE HAZE	DUST BLWG	NO SNOW WEA			
00003	6.3	1.7	2.2	.0	.0	.0	.0	.0	9.9		.0	.2	.0	.0	.0	.0	89.9	
06009	6.1	1.6	2.4	.3	.0	.0	.0	.0	10.4		.0	.0	.0	.0	.0	.0	89.6	
12015	8.9	3.2	2.3	.0	.0	.0	.0	.0	14.4		.2	.2	.0	.0	.0	.0	85.4	
18021	9.4	2.6	2.8	.3	.0	.0	.0	.0	14.8	214	.0	.3	.0	.0	.0	.0	84.9	
TOT	133	40	41	2	0	0	0	.0			.1	3	0	0	0	.9	1710	
PCT	7.8	2.3	2.4	.1	.0	.0	.0	.0	12.5		.1	.2	.0	.0	.0	.0	87.3	

FEBRUARY

PERIOD: (PRIMARY) 1936-1970
(OVER-ALL) 1861-1970

AREA 0009 AMAMI O SHIMA
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TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	00	03	06	09	12					15	18	21					
N	.3	9.2	14.9	5.2	.1	.0	31.2	29.2	28.6	28.1	29.9	27.5	27.0	37.8								
NE	.4	6.2	6.7	1.1	.1	.0	17.6	13.6	14.6	13.6	15.0	13.0	14.3	14.2								
E	.3	4.2	3.8	.5	.1	.0	8.8	8.4	6.0	8.4	8.9	11.6	8.4	8.0								
SE	.1	3.8	3.6	.5	.0	.0	5.8	7.7	6.6	8.3	10.6	9.4	6.8	6.8								
S	.3	2.3	3.7	.8	.0	.0	6.1	6.7	9.2	8.3	7.4	7.1	7.9	4.7								
SW	.3	1.9	2.6	.4	.0	.0	4.1	4.1	8.5	5.2	7.3	5.2	3.9	3.6								
W	.6	1.5	2.0	.7	.1	.0	5.7	5.0	5.8	3.8	3.9	2.7	5.2	2.2								
NW	.6	6.3	9.0	5.2	.4	.0	20.7	24.0	19.8	22.3	18.5	21.3	22.6	22.1								
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0								
CALM	.9	.0	.0	.0	.0	.0	.0	1.3	1.0	1.6	.7	1.0	1.3	.5								
TOT OBS	60	658	867	268	13	0	238	233	201	193	271	312	228	190								
TOT PCT	3.2	35.3	46.5	14.4	.7	.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0								

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL OBS	PCT FREQ	MEAN SPD	00	HOUR (GMT)					
	0-6	7-16	17-27	28-40	03						06	09	12	15	18	21
N	2.7	14.7	11.0	1.3	.0	.0	29.7	14.9	30.2	28.4	28.4	28.4	31.9			
NE	2.8	8.0	3.3	.3	*	*	14.5	12.5	15.7	14.1	13.9	14.2	14.2			
E	1.8	5.0	1.7	.2	*	*	8.8	11.9	8.6	7.2	7.2	7.2	8.3			
SE	1.2	4.7	2.1	.1	.0	.0	8.1	12.6	6.7	6.7	7.7	9.5	8.3			
S	1.2	3.4	2.5	.1	.0	.0	7.2	13.4	6.4	8.8	7.2	6.5	6.5			
SW	1.1	2.8	1.3	.1	.0	.0	5.3	12.5	4.1	6.9	6.2	3.8	3.8			
W	.5	2.2	1.2	.3	*	*	4.2	15.3	5.4	4.8	3.3	3.3	3.8			
NW	2.1	9.4	7.8	1.9	.1	.1	21.3	16.0	22.3	21.0	20.0	22.4	22.4			
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.9	.0	.0	.0	.0	.0	.9	.0	.6	1.3	.9	1.0	1.0			
TOT OBS	266	939	575	82	4	1866		14.0	471	394	583	418	418			
TOT PCT	14.3	50.3	30.8	4.4	.2		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1936-1970
(OVER-ALL) 1861-1970

AREA 0009 AMAHI D SHIMA
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00003	.6	2.5	35.9	47.1	13.0	.8	.0	13.8	100.0	471	
06009	1.3	2.3	32.0	46.4	18.0	.0	.0	14.5	100.0	394	
12015	.9	2.2	36.2	46.7	13.0	1.0	.0	13.8	100.0	583	
18021	1.0	2.2	36.4	45.5	14.4	.7	.0	13.9	100.0	418	
TOT	17	43	658	867	268	13	0	14.0	100.0	1866	
PCT	.9	2.3	35.3	46.5	14.4	.7	.0				

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	3.1	2.8	10.1	12.8		6.1
NE	2.4	1.5	3.2	6.1		5.8
E	1.7	1.0	3.2	2.6		5.4
SE	1.7	1.3	2.3	2.5		5.3
S	2.2	.9	2.2	2.4		4.9
SW	.7	1.4	2.6	2.4		5.9
W	.6	.6	1.5	2.3		6.0
NW	1.8	2.0	7.4	9.7		6.3
VAR	.0	.0	.0	.0		.0
CALM	.5	.0	.3	.2		4.1
TOT OBS	135	106	303	378	922	
TOT PCT	14.6	11.5	32.9	41.0	100.0	5.9

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH > 4/8)
AND OCCURRENCE OF NH < 5/8 BY WIND DIRECTION

WIND DIR	CEILING HEIGHTS (FT, NH > 4/8)												NH < 5/8 TOTAL OBS
	000	150	300	600	999	1000	2000	3500	5000	6499	7999	ANY HGT	
N	.1	.2	.5	3.4	9.2	6.3	.8	.0	.0	.0	.0	.0	7.9
NE	.0	.0	.4	1.5	3.7	1.8	.4	.1	.1	.1	.1	.1	5.1
E	.2	.0	.0	.6	1.6	1.2	.5	.3	.0	.0	.0	.0	3.9
SE	.0	.0	.0	.7	1.8	1.4	.2	.4	.0	.0	.0	.0	3.7
S	.0	.0	.0	.4	1.3	.9	.3	.1	.1	.1	.1	.1	4.7
SW	.0	.1	.1	.2	1.5	1.7	.1	.2	.1	.1	.1	.1	2.9
W	.0	.1	.2	.4	1.4	.7	.3	.2	.0	.0	.0	.0	1.8
NW	.0	.2	.6	2.4	6.8	4.3	.7	.2	.0	.0	.0	.0	5.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS	3	6	17	89	255	171	31	1	8	4	3	335	922
TOT PCT	.3	.7	1.8	9.7	27.7	18.5	3.4	.9	.3	.4	.3	36.3	100.0

PERIOD: (PRIMARY) 1936-1970
(OVER-ALL) 1861-1970

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AREA 0009 ANAMI D SHIMA
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TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING FLIGHT (NH > 4/8) AND VSBY (NH)

CEILING (FEET)	= OR		= OR		= OR		= OR		= OR		= OR	
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0	>0	>0	>0	>0
= OR >6500	.5	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8
= OR >5000	1.3	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
= OR >3500	3.6	4.8	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
= OR >2000	17.8	22.9	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5
= OR >1000	34.3	47.4	50.8	50.8	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0
= OR >600	39.4	55.5	60.2	60.5	60.2	60.8	60.8	60.8	60.8	60.8	60.8	60.8
= OR >300	40.4	57.0	61.9	62.4	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
= OR >150	40.6	57.5	62.6	63.0	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
= OR > 0	40.8	57.8	62.9	63.4	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
TOTAL	377	535	582	586	588	588	588	588	588	588	588	588

TOTAL NUMBER OF OBS: 925 PCT FREQ NH < 5/8: 36.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL
0	6.3	9.7	8.1	7.6	9.5	13.2	11.1	29.2	.3	965	965

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PERIOD: (PRIMARY) 1936-1970
(OVER-ALL) 1861-1970

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.1	.1	.0	.0	.0	.1	.0	.0	.0	.0	.2	.2
	11-21	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.1	.1	.0	.0	.0	.1	.0	.0	.0	.0	.3	.3
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4
	22+	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.2	.2
	TOT %	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.6	.6
1<2	0-3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	4-10	.6	.3	.1	.2	.1	.1	.1	.3	.0	.0	1.5	1.5
	11-21	.2	.4	.1	.1	.1	.0	.1	.2	.0	.0	1.2	1.2
	22+	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2
	TOT %	.8	.9	.2	.3	.2	.1	.1	.6	.0	.0	3.1	3.1
2<5	0-3	.0	.0	.0	.0	.1	.0	.0	.1	.0	.1	.2	.2
	4-10	.7	.3	.2	.2	.1	.1	.1	.6	.0	.0	2.3	2.3
	11-21	.9	.7	.2	.3	.5	.4	.1	.6	.0	.0	3.7	3.7
	22+	.2	.1	.1	.1	.2	.1	.3	.8	.0	.0	1.9	1.9
	TOT %	1.8	1.1	.5	.6	.8	.6	.6	2.0	.0	.1	8.0	8.0
5<10	0-3	.1	.0	.0	.0	.1	.1	.0	.1	.0	.1	.4	.4
	4-10	1.6	1.1	.7	.6	.2	.4	.2	1.4	.0	.0	6.2	6.2
	11-21	3.4	1.7	1.2	1.2	.8	1.0	.6	2.6	.0	.0	12.6	12.6
	22+	1.5	.5	.1	.0	.3	.2	.3	1.8	.0	.0	4.7	4.7
	TOT %	6.5	3.3	2.1	1.8	1.4	1.6	1.1	5.9	.0	.1	23.9	23.9
10+	0-3	.2	.3	.2	.1	.2	.3	.0	.4	.0	.7	2.3	2.3
	4-10	6.1	4.3	3.1	2.8	2.0	1.4	1.1	3.9	.0	.0	24.7	24.7
	11-21	10.3	3.6	2.3	2.3	2.3	1.3	1.2	5.6	.0	.0	28.8	28.8
	22+	3.3	.6	.3	.4	.2	.1	.2	3.0	.0	.0	8.1	8.1
	TOT %	19.9	8.8	5.9	5.6	4.6	3.1	2.5	12.9	.0	.7	64.0	64.0
TOT OBS													1807
TOT PCT		29.4	14.5	8.7	8.3	7.1	5.4	4.3	21.5	.0	.8	100.0	

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PERIOD: (PRIMARY) 1936-1970
(OVER-ALL) 1861-1970

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6300 7999	8000+	TOTAL ANY HGT	NH <5/8 TOTAL OBS
00003	.4	.9	3.4	13.2	29.1	17.9	3.0	1.3	.4	.4	70.1	29.9
06009	.0	.9	1.8	11.8	26.8	19.1	3.2	.5	.5	.9	65.5	34.5
12015	.4	.8	.8	8.3	24.9	17.4	4.2	1.1	.4	.0	58.1	41.9
18021	.4	.0	1.3	4.9	28.0	18.7	2.7	.4	.4	.0	36.9	43.1
TOT PCT	3 .3	6 .6	17 1.8	90 9.5	256 27.1	172 18.2	31 3.3	8 .8	4 .4	3 .3	590 62.5	354 37.5
												944 100.0

TABLE 11

PERCENT FREQUENCY VS8Y (NM) 8Y HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.0	.0	6.6	23.2	70.2	228
06009	.0	.0	.5	4.2	21.3	74.1	216
12015	.0	.8	.4	5.8	21.2	71.9	260
18021	.0	.0	1.4	5.9	25.2	67.6	222
TOT PCT	0 .0	2 .2	5 .5	52 5.6	210 22.7	657 71.0	926 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS8Y (NM) AND/OR
CEILING HGT (FEET, NH >4/8) 8Y HOUR

HOUR (GMT)	<150 <50YD	<600 <1 <5	1000+ AND 5+	NH <5/8 TOTAL OBS
00003	.4	4.8	22.8	49.1
06009	.0	2.8	17.6	49.5
12015	.4	2.7	15.8	44.2
18021	.9	2.3	11.3	46.8
TOT PCT	4 .4	29 3.1	156 16.8	438 47.3
				926 100.0

FEBRUARY

PERIOD: (PRIMARY) 1936-1970
(OVER-ALL) 1861-1970

AREA 0009 AMAMI O SHIMA
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TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100				
75/79	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	2	.3
70/74	.0	.0	.0	.4	1.6	3.0	3.6	1.9			78	10.5
65/69	.0	.0	.7	2.6	4.2	8.1	6.2	5.1			199	26.7
60/64	.0	.1	1.3	7.5	8.2	6.2	4.3	3.2			230	30.9
55/59	.0	.0	.8	4.2	9.3	5.5	2.6	2.0			181	24.3
50/54	.0	.0	.1	1.3	1.7	2.2	.7	.8			51	6.9
45/49	.0	.0	.0	.0	.1	.0	.1	.0			3	.4
TOTAL	.0	1	22	121	187	186	130	97			744	100.0
PCT	.0	.1	3.0	16.3	25.1	25.0	17.5	13.0				

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP									
N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.1	.0	.0	.1	.0	.0	.0	.0	.0
.4	.8	.5	1.3	2.7	3.2	.4	1.0	.0	.1
4.1	2.9	3.1	3.9	3.8	2.8	1.7	4.5	.0	.1
11.4	5.8	3.5	2.3	.9	.2	1.1	5.3	.0	.4
10.5	3.4	1.3	.3	.2	.1	1.0	7.3	.0	.3
3.1	.6	.0	.0	.1	.0	.1	3.0	.0	.0
.1	.0	.0	.0	.1	.0	.0	.1	.0	.0
29.6	13.6	8.4	7.7	7.9	6.4	4.4	21.2	.0	.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR									
HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	75	72	72	63	54	50	49	62.3	451
06009	76	74	72	63	54	48	41	62.4	389
12015	75	72	70	62	52	48	39	61.5	591
18021	74	72	70	61	52	48	48	60.5	423
TOT	76	73	71	62	52	49	39	61.7	1844

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR									
HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN
00003	.0	.0	.0	.0	.0	.0	.0	.0	.0
06009	.0	.0	.0	.0	.0	.0	.0	.0	.0
12015	.0	.0	.0	.0	.0	.0	.0	.0	.0
18021	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT	.0	.0	.0	.0	.0	.0	.0	.0	.0

PERIOD: (PRIMARY) 1936-1970
(OVER-ALL) 1861-1970

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45	49	53	57	61	65	69	73	TOT	W F00	MO F00
14/16	.0	.0	.0	.0	.0	.0	.1	.0	1	.0	.1
11/13	.0	.0	.0	.0	.0	.0	.1	.1	3	.0	.2
9/10	.0	.0	.0	.0	.0	.0	.0	.1	2	.0	.1
7/8	.0	.0	.0	.0	.0	.0	.1	.1	2	.0	.1
6	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
5	.0	.0	.0	.0	.1	.1	.2	.2	10	.0	.6
4	.0	.0	.0	.0	.1	.3	.5	.2	18	.0	1.1
3	.0	.0	.0	.0	.0	.1	.3	.1	7	.0	.4
2	.0	.0	.0	.1	.2	1.0	1.5	.4	53	.0	3.3
1	.0	.0	.0	.0	.1	.1	1.0	.1	20	.0	1.3
0	.0	.0	.1	.1	1.4	3.8	2.5	.0	124	.0	7.8
-1	.0	.0	.0	.0	.1	1.3	1.0	.2	41	.0	2.6
-2	.0	.0	.0	.0	.3	3.5	.8	.1	131	.0	8.3
-3	.0	.0	.0	.0	.2	1.8	.4	.0	38	.0	2.4
-4	.0	.0	.3	.8	6.1	3.7	.4	.0	179	.1	11.2
-5	.0	.1	.7	2.3	5.9	1.7	.2	.0	173	.0	10.9
-6	.0	.0	.1	.3	1.1	.7	.3	.0	38	.0	2.4
-7/-8	.1	.2	1.5	4.2	5.5	1.2	.1	.0	201	.0	12.7
-9/-10	.0	.2	2.0	5.7	3.0	.7	.1	.0	185	.0	11.7
-11/-13	.3	1.3	6.6	5.7	.9	.1	.0	.0	238	.1	14.9
-14/-16	.1	1.3	2.9	1.4	.1	.0	.0	.0	91	.0	5.7
-17/-19	.0	.5	.7	.0	.0	.0	.0	.0	19	.0	1.2
-20/-22	.1	.2	.2	.0	.0	.0	.0	.0	7	.0	.4
-23/-25	.0	.1	.1	.0	.0	.0	.0	.0	4	.0	.3
TOTAL	9	61	241	333	449	319	149	25	1586	2	1384
PCT	.6	3.8	15.2	21.0	26.3	20.1	9.4	1.6	100.0	.1	99.9

PERIOD: (OVER-ALL) 1963-1970

FEBRUARY
TABLE 19

AREA 0009 AMAMI O SHIMA
27.9N 129.4E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N					NE					48+	PCT		
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21			22-33	34-47
<1	.0	.5	.2	.0	.0	.0	.7	.0	.7	.0	.0	.0	.0	.7
1-2	.2	2.7	2.5	.0	.0	.0	5.4	.0	2.2	1.2	.0	.0	.0	.0
3-4	.0	2.7	5.8	.4	.0	.0	8.8	.0	3.0	2.5	.0	.0	.0	.0
5-6	.0	.9	4.4	.6	.0	.0	5.9	.0	.2	1.5	.0	.0	.0	.0
7	.0	.0	3.3	.9	.0	.0	4.2	.0	.5	.6	.0	.0	.0	.0
8-9	.0	.4	.9	1.0	.0	.0	2.3	.0	.1	.3	.0	.0	.0	.0
10-11	.0	.0	.0	1.3	.0	.0	1.3	.0	.0	.0	.1	.0	.0	.0
12	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.2	.5	.0	.0	.6	.0	.0	.0	.2	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	7.1	17.4	4.7	.0	.0	29.4	.0	6.6	6.1	.6	.0	.0	13.3

HGT	E					SE						PCT		
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.0	.0	.0	.0	.4	.0	.6	.0	.0	.0	.0	.6
1-2	.5	1.2	.6	.0	.0	.0	2.3	.0	1.8	.3	.0	.0	.0	2.1
3-4	.0	1.4	1.9	.2	.0	.0	3.5	.0	1.6	1.6	.2	.0	.0	3.5
5-6	.0	.0	.5	.2	.0	.0	.7	.0	.2	1.2	.2	.0	.0	1.6
7	.0	.0	.8	.0	.0	.0	.8	.0	.0	.6	.0	.0	.0	.6
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	3.0	3.8	.5	.0	.0	7.8	.0	4.2	3.7	.7	.0	.0	8.7

PERIOD: (OVER-ALL) 1963-1970

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TABLE 18

AREA 0009 ANAMI O SHIMA
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PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.8	.0	.0	.0	.0	1.1	.2	.8	.0	.0	.0	.0	1.0
1-2	.0	2.0	1.2	.0	.0	.0	3.2	.0	1.8	.2	.0	.0	.0	2.0
3-4	.0	.9	1.7	.0	.0	.0	2.6	.0	.5	.4	.5	.0	.0	3.6
5-6	.0	.0	.5	.2	.0	.0	.7	.0	.5	.5	.0	.0	.0	.9
7	.0	.0	.2	.0	.0	.0	.2	.0	.0	.5	.2	.0	.0	.7
8-9	.0	.0	.4	.2	.0	.0	.6	.0	.0	1.1	.0	.0	.0	1.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	1.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	3.7	4.0	.6	.1	.0	8.6	.2	3.5	3.8	.8	.0	.0	8.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.2	.0	.0	.0	.2	.5	.7	.0	.0	.0	.0	1.2
1-2	.0	1.6	.0	.0	.0	.0	1.6	.0	2.6	1.1	.0	.0	.0	3.7
3-4	.0	.4	.7	.0	.0	.0	1.1	.0	1.9	2.7	.1	.0	.0	4.8
5-6	.0	.0	.6	.0	.0	.0	.6	.0	.8	3.9	1.3	.0	.0	5.1
7	.0	.0	.4	.0	.0	.0	.6	.0	.0	1.1	1.5	.1	.0	2.6
8-9	.0	.0	.2	.0	.0	.0	.2	.0	.0	.2	.6	.0	.0	.8
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.0	.5
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.1	2.2	.0	.2	.0	4.4	.5	6.1	9.1	3.0	.3	.0	18.9

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PERIOD: (OVER-ALL) 1963-1970

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)							TOT OBS
	0-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	1.4	4.5	.5	.0	.0	.0	6.4	
1-2	.9	15.8	7.1	.0	.0	.0	23.8	
3-4	.0	12.5	19.5	1.4	.0	.0	33.4	
5-6	.0	2.6	12.9	1.6	.0	.0	17.2	
7	.0	.5	7.5	2.6	.2	.0	10.8	
8-9	.0	.5	2.1	2.4	.0	.0	4.9	
10-11	.0	.0	.0	1.4	.0	.0	1.4	
12	.0	.0	.2	.2	.0	.0	.5	
13-16	.0	.0	.2	1.2	.2	.0	1.6	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.4	36.2	50.1	10.8	.5	.0	100.0	
							425	

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS HAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.9	12.6	17.4	4.9	2.7	1.1	.1	.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	281	3
6-7	.0	1.6	6.5	13.1	5.9	2.6	.6	.3	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	231	5
8-9	.0	.1	2.0	3.3	4.0	1.3	1.0	.4	.4	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	89	7
10-11	.0	.0	.4	.4	.7	1.0	.4	.1	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	26	9
12-13	.0	.0	1.0	.6	.3	.4	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	6
>13	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	8
INDET	1.9	.9	2.0	.7	.6	.4	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	48	3
TOTAL	19	106	218	160	99	51	17	9	14	1	1	.0	.0	.0	.0	.0	.0	.0	.0	697	5
PCT	2.7	15.2	31.3	23.0	14.2	7.3	2.4	1.3	2.0	.1	.1	.0	.3	.0	.0	.0	.0	.0	.0	100.0	

MARCH

PERIOD: (PRIMARY) 1936-1970
(OVER-ALL) 1857-1970

AREA 0009 ANAHI O SHINA
27.8N 129.4E

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				FRZG	SNOW	OTHER					PCPN	FOG	SMOKE	DUST	NO	
				PCPN		PCPN						NO	HAZE	BLWG	DUST	SIG
																WEA
N	1.8		.5	.0	.0	.0	.0	2.4		*	.1	.1	.1	.0	.0	21.4
NE	1.2	.2	.5	.0	.0	.0	.0	1.8		.1	.1	.1	.1	.0	.0	11.4
E	1.0	.2	.2	.0	.0	.0	.0	1.4		.0	.0	.0	.0	.0	.0	9.6
SE	1.2	.2	.4	*	.0	.0	.0	1.7		*	*	*	.0	.0	.0	8.2
S	1.0	.3	.2	*	.0	.0	.0	1.6		.0	.1	.1	.1	.0	.0	9.1
SW	.9	.1	.4	.0	.0	.0	.0	1.2		*	.1	*	*	.0	.0	5.6
W	.6	.0	.1	.0	.0	.0	.0	.7		*	*	*	*	.0	.0	5.0
NW	1.1	.4	.4	.0	.0	.0	.0	1.9		*	*	*	.1	.0	.0	14.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
CALM	*	*	.0	.0	.0	.0	.0	.1		.0	.0	.0	.1	.0	.0	1.0
TOT OBS	188	32	58	2	0	0	0		274	6	11	11	11	0	0	1824
TOT PCT	8.9	1.5	2.7	.1	.0	.0	.0	12.9		.3	.5	.5	.5	.0	.0	85.9

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				FRZG	SNOW	OTHER					PCPN	FOG	SMOKE	DUST	NO	
				PCPN		PCPN										
0003	8.6	.5	3.2	.2	.0	.0	.0	11.8		.2	.5	.5	1.1	.0	.0	86.4
0609	7.4	1.5	2.3	.0	.0	.0	.0	11.0		.2	.4	.4	.6	.0	.0	47.9
12015	8.1	1.8	3.0	.2	.0	.0	.0	12.9		.3	.3	.3	.3	.0	.0	36.2
18021	11.3	2.2	2.2	.0	.0	.0	.0	15.6		.4	.8	.8	.0	.0	.0	83.2
TOT	188	32	58	2	0	0	0		274	6	11	11	11	0	0	1831
PCT	9.8	1.5	2.7	.1	.0	.0	.0	12.9		.3	.5	.5	.5	.0	.0	85.9

MARCH

PERIOD: (PRIMARY) 1936-1970
(OVER-ALL) 1857-1970

AREA 0009 ANAMI O SHINA
27.8N 129.4E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)				
	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD		00	03	06	09	12
N	.8	7.7	11.4	3.9	.5	.0	24.3	14.7	23.7	22.4	17.8	32.7	24.0	26.6	19.9
NE	.6	6.3	5.5	.8	*	.0	13.3	11.4	11.2	13.5	14.0	11.4	15.3	13.1	13.9
E	.6	5.1	4.2	.7	.1	.0	10.7	11.5	10.3	10.7	11.3	9.4	11.8	11.0	11.7
SE	.5	5.3	3.5	1.0	*	.0	10.3	11.6	9.2	10.7	10.3	9.5	10.2	10.5	10.5
S	.6	4.7	4.2	1.4	.1	.0	11.0	12.9	15.4	11.3	9.7	8.3	10.3	12.2	12.0
SW	.2	3.1	2.7	.7	*	.0	6.8	12.4	7.0	8.5	11.0	5.5	4.7	4.5	9.7
W	.3	2.4	2.2	.6	.2	.0	5.8	13.4	3.8	7.0	6.4	7.2	5.1	4.8	8.6
NW	.5	4.8	6.6	3.9	.8	.0	16.6	16.5	18.2	15.6	17.9	15.4	17.1	17.3	13.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.1	9.27	9.50	3.06	.43	0	1.1	.0	1.3	.3	1.6	.8	1.4	.0	.4
TOT OBS	124	39.4	40.4	13.0	1.8	.0	2350	13.3	317	319	258	251	365	308	299
TOT PCT	5.3						100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)										41+	TOTAL OBS	PCT FREQ		HOUR (GMT)				
	0-6	7-16	17-27	28-40									MEAN SPD		00	03	06	09	12
N	3.1	12.7	6.7	1.7	.1								14.7	24.3	23.0	25.1	25.2	24.0	24.0
NE	2.9	7.9	2.2	.2	.0								11.4	13.3	12.3	12.7	14.4	13.6	13.6
E	2.4	6.0	2.1	.1	.1								11.5	10.7	10.5	10.4	11.4	10.4	10.4
SE	2.3	6.0	1.8	.3	*								11.6	10.3	10.0	9.9	10.3	11.1	11.1
S	2.3	5.4	3.0	.3	*								12.9	11.0	13.3	9.0	11.1	10.0	10.0
SW	1.2	4.0	1.5	.1	.0								12.4	6.8	7.8	8.3	4.6	7.0	7.0
W	1.4	2.6	1.5	.3	*								13.4	5.8	5.4	6.8	5.0	6.4	6.4
NW	1.9	7.5	4.9	2.2	.1								16.5	16.6	16.9	16.7	17.2	15.6	15.6
VAR	.0	.0	.0	.0	.0								.0	.0	.0	.0	.0	.0	.0
CALM	1.1	12.22	5.59	1.25	.9								.0	1.1	.8	1.2	.7	.7	1.9
TOT OBS	435	52.0	23.8	5.3	.4							2350	13.3	636	509	673	592	532	532
TCT PCT	18.5											100.0		100.0	100.0	100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1936-1970
(OVER-ALL) 1957-1970

MARCH

AREA 0009 ANAHI D SHIMA
27.8N 129.4E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	WIND SPEED (KNOTS)		PCT	TOTAL
								MEAN	FREQ		
0003	.8	5.0	40.1	39.8	12.6	1.7	.0	13.1	100.0		636
0609	1.2	4.1	37.9	39.5	15.3	2.0	.0	13.8	100.0		509
1215	.7	3.6	39.7	41.8	12.0	2.2	.0	13.4	100.0		673
1821	1.9	3.9	39.8	40.4	12.6	1.3	.0	13.0	100.0		532
TOT	26	98	927	950	306	43	0	13.3			2350
PCT	1.1	4.2	39.4	40.4	13.0	1.8	.0		100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-6	OBSCD	TOTAL	OBS	MEAN	
								CLOUD	COVER
N	2.6	3.2	6.9	9.2				5.9	
NE	1.8	1.9	4.0	5.2				5.8	
E	1.1	1.4	3.3	5.3				6.2	
SE	1.2	1.7	2.9	3.4				6.0	
S	1.6	1.3	3.9	4.6				5.8	
SW	1.4	1.0	2.5	3.0				5.6	
W	.9	.8	1.9	3.3				6.1	
NW	1.8	3.4	5.2	7.5				5.9	
VAR	.0	.0	.0	.0				.0	
CALM	.5	.2	.6	.5				4.6	
TOT OBS	139	151	337	454				5.9	
TOT PCT	12.9	14.0	31.2	42.0					108.1

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-6	OBSCD	TOTAL	OBS	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)										NH <5/8	
								000	150	300	600	1000	2000	3500	5000	6500	7999	ANY HGT	TOTAL
N	2.6	3.2	6.9	9.2				.2	.0	.4	3.0	5.4	3.4	.8	.2	.1	.1	.1	8.3
NE	1.8	1.9	4.0	5.2				*	.0	.2	1.5	2.4	2.7	.5	.0	.2	.0	.0	5.6
E	1.1	1.4	3.3	5.3				.4	.0	.4	.9	2.7	1.7	.5	.1	.0	.3	.3	3.9
SE	1.2	1.7	2.9	3.4				.0	.0	.2	.5	2.1	1.5	.1	.1	.0	*	3.6	
S	1.6	1.3	3.9	4.6				.0	.1	.5	1.4	2.1	1.9	.3	.1	.0	.1	5.1	
SW	1.4	1.0	2.5	3.0				.0	*	.3	.7	1.1	.8	.3	.0	.2	.2	4.0	
W	.9	.8	1.9	3.3				.0	.0	.3	.9	2.0	.5	.4	.2	*	.0	2.5	
NW	1.8	3.4	5.2	7.5				.4	.1	.2	1.9	4.0	3.1	.8	.1	.1	.0	7.2	
VAR	.0	.0	.0	.0				.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.5	.2	.6	.5				.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.1
TOT OBS	139	151	337	454				10	3	27	117	238	170	42	8	10	9	447	1081
TOT PCT	12.9	14.0	31.2	42.0				.9	.3	2.5	10.8	22.0	15.7	3.9	.7	.9	.8	41.4	100.0

PERIOD: (PRIMARY) 1936-1970
(OVER-ALL) 1857-1970

MARCH

AREA 0009 AHAMI D SHINA
27.0N 129.4E

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	VSBY (NM) = OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	1.4	1.7	1.7	1.8	1.8	1.8	1.8	1.8
= OR >5000	2.1	2.4	2.4	2.5	2.5	2.5	2.5	2.5
= OR >3500	4.7	6.3	6.4	6.5	6.5	6.5	6.5	6.5
= OR >2000	15.3	21.0	21.9	22.1	22.1	22.1	22.1	22.1
= OR >1000	27.3	40.3	43.1	43.6	43.7	43.7	43.7	43.7
= OR >600	32.6	49.5	53.8	54.6	54.8	54.8	54.8	54.8
= OR >300	33.6	51.3	56.0	56.9	57.1	57.2	57.2	57.2
= OR >150	33.7	51.5	56.2	57.2	57.4	57.5	57.5	57.5
= OR >0	34.1	52.1	57.0	58.1	58.3	58.4	58.4	58.4
TOTAL	366	559	611	623	625	626	626	626

TOTAL NUMBER OF OBS: 1072

PCT FREQ NH <5/8: 41.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
4.1	6.4	11.6	11.2	8.3	9.8	10.5	9.3	28.1	.8	1158	

PERIOD: (PRIMARY) 1936-1970
(OVER-ALL) 1857-1970

MARCH

AREA 0009 AMAMI D SHIMA
27.8N 129.4E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	.1	*	*	.0	*	.0	.0	.0	.0	.0	.2	
NO PCP	.0	.0	.0	.0	*	.0	*	.0	.0	.0	.1	
TOT %	.1	*	*	.0	.1	.0	.0	.0	.0	.0	.3	
PCP	.1	.0	.1	.1	.1	*	.0	.1	.0	.0	.5	
NO PCP	*	*	.0	.0	.0	*	.0	.2	.0	*	.4	
TOT %	.2	*	.1	.1	.1	.1	.0	.3	.0	*	.9	
PCP	.2	.3	.1	.2	.1	.2	*	.2	.0	.0	1.4	
NO PCP	.1	.0	.0	*	.1	*	*	*	.0	.0	.4	
TOT %	.4	.3	.1	.2	.2	.2	.1	.2	.0	.0	1.8	
PCP	.8	.5	.5	.6	.7	.4	.2	.7	.0	.0	4.4	
NO PCP	.5	.3	.3	.3	.5	.2	.2	.4	.0	.0	2.7	
TOT %	1.2	.8	.8	.9	1.2	.6	.4	1.2	.0	.0	7.1	
PCP	.7	.6	.4	.7	.4	.4	.3	.5	.0	.0	4.0	
NO PCP	5.3	2.9	2.2	1.7	2.3	1.8	1.6	3.8	.0	.1	21.8	
TOT %	6.0	3.5	2.6	2.5	2.7	2.2	1.9	4.3	.0	.1	25.8	
PCP	.5	.3	.2	.2	.3	.2	.1	.3	.0	.1	2.3	
NO PCP	15.6	8.4	7.1	6.2	6.4	3.7	3.3	10.3	.0	.9	61.8	
TOT %	16.1	8.7	7.3	6.4	6.7	3.9	3.4	10.6	.0	1.0	64.1	
TOT OBS												2119
TOT PCT	24.0	13.4	11.0	10.0	11.0	6.9	5.8	16.6	.0	1.2	100.0	

PERIOD: (PRIMARY) 1936-1970
(OVER-ALL) 1857-1970

MARCH

AREA 0009 ANAMI O SHIMA
27.8N 129.4E

TABLE 9
PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.1	.1	.0	.0	.0	.0	.0	.1	.0	.0	.2	.3
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.2	.1	.0	.0	.0	.0	.0	.1	.0	.0	.6	.6
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3
	11-21	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.7
	TOT %	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.2	1.2
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	1.0
	11-21	.3	.2	.1	.2	.1	.0	.0	.1	.0	.0	1.0	1.0
	TOT %	.8	.4	.2	.3	.4	.2	.1	.4	.0	.0	2.9	2.9
2<5	0-3	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.3	.3
	4-10	.6	.5	.3	.6	.5	.3	.3	.3	.0	.0	3.4	3.4
	11-21	.7	.4	.3	.4	.3	.3	.2	.5	.0	.0	3.4	3.4
	TOT %	1.8	1.0	.9	1.2	1.4	.6	.5	1.4	.0	.0	8.9	8.9
5<10	0-3	.2	.1	.0	.0	.0	.1	.1	.2	.0	.1	1.0	1.0
	4-10	1.4	1.5	1.0	1.3	1.2	1.0	.7	.9	.0	.0	9.0	9.0
	11-21	3.0	1.6	1.2	.7	1.0	.9	.7	1.9	.0	.0	11.0	11.0
	TOT %	5.9	3.4	2.5	2.3	2.5	2.1	1.8	4.2	.0	.1	24.8	24.8
10+	0-3	.5	.5	.4	.5	.4	.1	.1	.3	.0	.9	3.9	3.9
	4-10	5.5	4.3	3.7	3.1	2.7	1.6	1.4	3.5	.0	.0	23.7	23.7
	11-21	7.2	3.3	2.6	2.3	2.6	1.5	1.2	3.9	.0	.0	24.6	24.6
	TOT %	15.6	8.4	7.0	6.2	6.5	3.7	3.2	10.1	.0	.9	61.7	61.7
TOT OBS													2234
TOT PCT		24.6	13.4	10.7	10.2	11.0	6.8	5.7	16.5	.0	1.1	100.0	

TABLE 10

PERCENT FREQUENCY OF SELECTED MONTHS OF YEAR 1970
COMPARISON OF 1970 AND 1969

MONTH	1970	1969	1970	1969	1970	1969	1970	1969	1970	1969	1970	1969
JAN	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
FEB	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
MAR	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
APR	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
MAY	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
JUN	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
JUL	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
AUG	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
SEP	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
OCT	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
NOV	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
DEC	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

TABLE 11

PERCENT FREQUENCY VARY (M) BY MONTH

MONTH	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
JAN	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
FEB	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
MAR	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
APR	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
MAY	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
JUN	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
JUL	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
AUG	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
SEP	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
OCT	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
NOV	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
DEC	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

TABLE 12

CUMULATIVE PERCENT OF RANGES UP VERY (M) MONTH

MONTH	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
JAN	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
FEB	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
MAR	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
APR	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
MAY	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
JUN	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
JUL	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
AUG	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
SEP	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
OCT	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
NOV	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
DEC	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

MARCH

PERIOD: (PRIMARY) 1936-1970
(OVER-ALL) 1957-1970

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TABLE 13

TEMP °	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP								TOTAL OBS	PCT REQD
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100		
75/79	.0	.0	.0	.2	.3	.5	.7	.1	18	1.9
70/74	.0	.0	.2	.5	1.1	2.6	10.1	7.7	214	22.2
65/69	.0	.0	.5	2.9	6.3	7.1	10.3	7.4	234	24.1
60/64	.0	.0	1.5	4.8	9.3	6.3	2.9	1.9	258	26.8
55/59	.0	.0	.0	2.0	4.5	3.4	2.3	.6	129	13.0
50/54	.0	.0	.0	.1	.4	.4	.1	.0	10	1.0
45/49	.0	.1	.0	.0	.0	.0	.1	.1	3	.3
TOTAL	.0	.1	.23	10.1	21.3	19.6	25.3	17.1	962	100.0
PCT	.0	.1	2.4	10.5	22.1	20.6	26.3	17.8		

TABLE 14

TEMP °	PERCENT FREQUENCY OF WIND DIRECTION BY TEMP										VAR	CALM
	N	NE	E	SE	S	SW	W	NW				
75/79	.1	.0	.0	.1	.7	.3	.2	.2		.0	.0	.0
70/74	.7	2.0	4.2	3.3	4.9	3.7	1.6	1.4		.0	.1	.1
65/69	4.3	4.2	3.8	3.2	4.9	2.4	2.7	4.3		.0	.0	.6
60/64	7.6	3.3	2.1	1.4	.8	.6	1.2	3.9		.0	.0	.8
55/59	4.9	2.4	.3	.1	.1	.0	.8	4.1		.0	.0	.3
50/54	.3	.0	.0	.0	.1	.0	.0	.4		.0	.0	.0
45/49	.0	.0	.0	.0	.1	.0	.0	.3		.0	.0	.0
TOTAL	18.3	14.0	13.5	10.3	11.3	7.0	6.7	16.7		.0	1.9	

TABLE 15

HOUR (GMT)	MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR										TOTAL OBS
	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS		
00003	81	75	73	66	5%	52	48	65.2	515		241
06009	78	77	73	65	55	48	43	64.7	502		199
12015	78	73	72	64	55	52	40	63.5	662		269
18021	76	73	70	64	55	52	46	63.5	525		260
TOT	81	75	72	64	55	52	43	64.2	2304		903

TABLE 16

HOUR (GMT)	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR										TOTAL OBS
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN		
00003	.0	10.8	21.6	21.6	19.1	30.2	18.3		77		241
06009	.0	21.6	21.6	21.6	21.1	24.6	11.1		72		199
12015	.0	13.2	22.6	22.6	22.6	20.0	21.3		75		269
18021	.0	8.5	22.3	22.3	19.2	31.2	18.8		77		260
TOT	0	12.6	21.3	21.3	19.8	25.6	17.2		75		903

PERIOD: (PRIMARY) 1936-1970
(OVER-ALL) 1857-1970

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	41	45	49	53	57	61	65	69	73	77	TOT	M FOG	NO FOG
11/13	.0	.0	.0	.0	.0	.0	.1	.3	.1	.1	11	.0	.6
9/10	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	4	.0	.2
7/8	.0	.0	.0	.0	.0	.0	.1	.0	.0	.2	4	.0	.2
6	.0	.0	.0	.0	.0	.0	.1	.0	.1	.1	4	.0	.2
5	.0	.0	.0	.0	.1	.2	.2	.1	.2	.1	13	.0	.7
4	.0	.0	.0	.1	.0	.1	.3	.5	.3	.1	24	.0	1.2
3	.0	.0	.0	.0	.0	.0	.2	.5	.4	.0	20	.0	1.0
2	.0	.0	.0	.0	.0	.5	1.2	2.4	.7	.1	95	.0	4.8
1	.0	.0	.0	.0	.1	.1	.6	.9	.8	.1	46	.0	2.3
0	.0	.0	.0	.0	.1	1.4	3.4	5.1	.9	.0	215	.1	10.8
-1	.0	.0	.0	.0	.0	.1	1.2	2.8	.2	.0	84	.0	4.2
-2	.0	.0	.0	.0	.0	.6	3.5	5.7	.3	.0	267	.1	13.4
-3	.0	.0	.0	.0	.2	.6	2.3	1.1	.1	.0	82	.0	4.1
-4	.0	.0	.0	.3	1.1	5.7	3.6	1.0	.0	.0	231	.1	11.6
-5	.0	.0	.0	.4	1.6	4.5	2.5	.4	.1	.0	186	.1	9.3
-6	.0	.0	.0	.1	.7	1.9	1.3	.2	.0	.0	62	.0	4.1
-7/-8	.0	.0	.1	.6	3.0	6.4	1.5	.2	.1	.0	254	.2	11.6
-9/-10	.0	.0	.2	1.6	3.8	2.5	.6	.1	.0	.0	173	.1	8.7
-11/-13	.1	.0	.6	2.4	3.4	1.1	.2	.0	.0	.0	154	.1	7.7
-14/-16	.0	.3	.2	1.0	.7	.2	.0	.0	.0	.0	45	.0	2.3
-17/-19	.0	.1	.2	.1	.1	.1	.0	.0	.0	.0	9	.0	.5
TOTAL	1	7	24	129	303	569	491	368	80	11	1983	11	1972
PCT	.1	.4	1.2	6.5	15.3	28.7	24.8	18.6	4.0	.6	100.0	.6	99.4

PERIOD: (OVER-ALL): 1963-1970

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N					NE					PCT			
<1	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
1-2	.0	.7	.0	.0	.0	.0	.7	.4	.5	.2	.0	.0	.0	1.1
3-4	.4	2.2	1.0	.0	.0	.0	3.5	.7	3.0	2.0	.0	.0	.0	5.8
5-6	.0	1.6	2.8	.4	.0	.0	4.8	.0	2.7	3.3	.0	.0	.0	6.0
7	.0	1.0	2.7	.8	.0	.0	4.5	.0	.5	1.0	.0	.0	.0	1.5
8-9	.0	.0	1.7	.8	.0	.0	2.5	.0	.0	.8	.3	.0	.0	1.1
10-11	.0	.0	.6	.7	.2	.0	1.5	.0	.1	.0	.5	.0	.0	.5
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	5.5	8.7	2.7	.4	.0	17.7	1.1	6.7	7.4	.8	.0	.0	16.0

HGT	E					SE					PCT		
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.0	.0	.0	.0	.0	.1	.3	.0	.0	.0	.0	.3
1-2	.0	1.0	.8	.0	.0	.0	.0	1.2	1.0	.0	.0	.0	2.2
3-4	.0	1.7	2.1	.0	.0	.0	.0	2.0	.9	.0	.0	.0	2.8
5-6	.0	.9	.5	.2	.0	.0	.0	.2	.2	.0	.0	.0	.4
7	.0	.0	.3	.0	.0	.0	.0	.2	.3	.4	.0	.0	.9
8-9	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
10-11	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.6	3.7	.4	.0	.0	.1	3.9	2.3	.6	.0	.0	6.9

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TABLE 18

PERIOD: (OVER-ALL) 1963-1970

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.0	.0	.0	.0	.0	1.2	.0	.6	.0	.0	.0	.0	.6
1-2	.2	1.1	1.4	.0	.0	.0	2.7	.0	.5	1.1	.0	.0	.0	1.6
3-4	.0	1.8	1.2	.6	.0	.0	3.6	.0	.3	1.3	.4	.0	.0	2.6
5-6	.0	.3	2.2	.4	.0	.0	2.9	.0	.3	.9	.4	.0	.0	1.6
7	.0	.0	.6	.4	.0	.0	1.0	.0	.0	.5	.6	.2	.0	1.3
8-9	.0	.0	.2	.2	.0	.0	.4	.0	.2	.2	.0	.0	.0	.4
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	4.2	5.5	1.9	.0	.0	12.0	.0	2.5	3.9	1.5	.2	.0	8.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.4	.0	.0	.0	.0	.6	.0	.3	.0	.0	.0	.0	.3
1-2	.0	1.3	.6	.0	.0	.0	1.9	.2	2.8	1.6	.0	.0	.0	4.6
3-4	.0	.8	.5	.2	.0	.0	1.5	.0	1.8	2.7	.6	.0	.0	5.1
5-6	.0	.2	1.2	.2	.2	.0	1.8	.0	1.5	2.9	.7	.0	.0	5.2
7	.0	.2	.6	.4	.0	.0	1.2	.0	.1	1.4	1.1	.0	.0	2.5
8-9	.0	.0	.6	.0	.2	.0	.8	.0	.0	.3	.5	.0	.0	.9
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	.2	.0	.6
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.9
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.9	3.6	.8	.4	.0	7.9	.2	6.4	9.3	4.7	.2	.0	20.8

PERIOD: (OVER-ALL) 1963-1970

MARCH

AREA 0009 AHAMI D SHIMA
27.8N 129.4E

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)							TOT OBS
	0-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	4.0	3.8	.2	.0	.0	.0	8.0	
1-2	1.7	13.1	9.3	.0	.0	.0	24.1	
3-4	.2	12.9	14.6	2.3	.0	.0	30.0	
5-6	.0	4.9	11.4	2.7	.2	.0	19.2	
7	.0	.4	6.1	4.0	.2	.0	10.8	
8-9	.0	.4	1.9	2.1	.4	.0	4.9	
10-11	.0	.0	.4	.8	.0	.0	1.3	
12	.0	.0	.0	.4	.2	.0	.6	
13-16	.0	.0	.0	.8	.0	.0	.8	
17-19	.0	.0	.0	.0	.2	.0	.2	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.9	35.5	44.0	13.3	1.3	.0	100.0	
							473	

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.1	12.5	17.4	7.2	3.7	1.0	.6	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	366	4
6-7	.0	2.0	10.7	9.8	5.3	1.9	.5	.6	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	260	5
8-9	.0	.2	1.4	3.7	3.4	1.8	.5	.6	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	101	7
10-11	.0	.4	1.3	.4	.5	.5	.4	.5	.5	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	39	8
12-13	.0	.0	.4	.0	.0	.0	.0	.2	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	6	9
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
INDET	2.9	1.2	1.4	.7	.7	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	60	3
TOTAL	33	136	272	183	113	43	17	17	11	5	1	2	0	0	0	0	0	0	0	833	5
PCT	11.0	45.3	89.0	62.8	39.0	15.1	6.2	6.2	3.8	1.9	.7	.7	.0	.0	.0	.0	.0	.0	.0	100.0	

APRIL

PERIOD: (PRIMARY) 1938-1970
(OVER-ALL) 1867-1970

AREA 0009 AMAMI D SHIMA
27.6N 129.4E

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE				HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				FRZG PCPN	FRZG PCPN	SNOW PCPN	OTHER PCPN					FGG WD	SMOKE PCPN	DUST BLWG	DUST SNOW	SIG HEA	
N	.7	.1	.4	.0	.0	.0	.0	.1	1.1		.0	.1	.1	.0	.0	16.5	
NE	.6	.2	.2	.0	.0	.0	.0	.0	1.0		.0	.2	.1	.0	.0	14.9	
E	1.4	.2	.7	.0	.0	.0	.0	.0	2.0		.0	.0	.2	.0	.0	13.3	
SE	1.3	.2	.8	.0	.0	.0	.0	*	2.1		.0	.3	.2	.0	.0	13.8	
S	1.3	.2	.3	.0	.0	.0	.0	.0	1.8		.1	.1	.2	.0	.0	9.5	
SW	.7	.1	.1	.0	.0	.0	.0	.0	.9		.1	.3	.1	.0	.0	5.0	
W	.5	.0	.2	.0	.0	.0	.0	.0	.6		.0	*	*	.0	.0	3.6	
NW	.7	.1	.4	.0	.0	.0	.0	.0	.9		.0	*	.1	.0	.0	9.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	1.0	
CALM	.1	.0	.0	.0	.0	.0	.0	.0	.1	268	.4	.30	.26	.0	.0	22.1	2569
TOT OBS	184	28	81	0	0	0	0	3	10.4		.2	1.2	1.0	.0	.0	87.2	
TOT PCT	7.2	1.1	3.2	.0	.0	.0	.0	.1									

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE				HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				FRZG PCPN	FRZG PCPN	SNOW PCPN	OTHER PCPN					FGG WD	SMOKE PCPN	DUST BLWG	DUST SNOW	SIG HEA	
0003	6.1	1.5	2.9	.0	.0	.0	.0	.0	9.5		.0	.9	1.8	.0	.0	87.8	
0609	5.8	1.2	3.6	.0	.0	.0	.0	.0	9.3		.0	.8	.3	.0	.0	89.5	
12015	7.6	.8	3.1	.0	.0	.0	.0	.5	10.8		.3	1.1	1.1	.0	.0	86.7	
18021	9.6	.7	3.4	.0	.0	.0	.0	.0	12.5	269	.4	2.1	.6	.0	.0	84.5	2575
TOT	144	28	82	0	0	0	0	3	10.4		.2	.30	.26	.0	.0	22.6	
PCT	7.1	1.1	3.2	.0	.0	.0	.0	.1				1.2	1.0	.0	.0	87.2	

APRIL

AREA 0009 AMAMI O SHIMA
27.6N 129.4E

PERIOD: (PRIMARY) 1938-1970
(OVER-ALL) 1867-1970

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)											
	0-3	4-10	11-21	22-33	34-47	48+				'00	03	06	09	12	15	18	21				
N	.9	6.6	8.4	1.7	*	.0	17.6	12.7	19.6	16.7	16.9	18.7	18.8	14.7	16.2	19.6					
NE	1.7	6.8	6.9	.4	.0	.0	15.8	10.3	16.0	19.5	14.5	13.7	16.9	12.5	14.3	18.1					
E	1.5	6.2	6.5	1.2	*	.0	15.3	11.5	17.6	16.3	13.1	14.3	14.4	15.4	14.9	16.0					
SE	.7	6.9	8.0	.9	.0	.0	16.5	12.1	17.3	16.3	16.5	15.3	15.0	19.0	16.4	15.9					
S	.6	5.4	5.1	.8	.0	.0	12.0	11.8	11.6	11.5	13.2	11.6	11.4	13.8	13.0	9.2					
SW	.3	3.2	2.8	.2	*	.0	6.5	11.3	4.7	4.7	7.1	6.4	6.5	9.1	8.4	6.3					
W	.4	1.8	1.7	.3	.0	.0	4.2	11.1	3.7	2.6	4.6	5.2	5.3	4.9	4.6	2.9					
NW	.3	4.0	4.8	1.8	*	.0	10.9	13.7	8.5	11.4	12.8	13.9	10.1	10.0	10.4	11.2					
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0					
CALM	1.1	11.50	12.44	203	4	0	1.1	.0	1.0	.9	1.2	1.0	1.7	.6	1.8	.8					
TOT OBS	208	40.9	44.3	7.2	.1	.0	2809	11.7	408	463	337	296	402	336	328	239					
TOT PCT	7.4						100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0					

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)										41+	TOTAL OBS	PCT FREQ		MEAN SPD		HOUR (GMT)											
	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21	PCT FREQ		MEAN SPD		PCT FREQ		MEAN SPD		PCT FREQ		MEAN SPD	
N	3.7	8.5	5.1	.3	.0	17.6	12.7	12.7	18.1	17.7	17.0	17.0	17.6															
NE	4.9	8.6	2.3	.1	.0	15.8	10.3	10.3	17.9	14.1	14.9	15.9	15.9															
E	3.7	8.5	2.9	.2	*	15.3	11.5	11.5	16.9	13.7	14.8	15.3	15.3															
SE	2.9	9.8	3.6	.1	.0	16.5	12.1	12.1	16.8	16.0	16.8	16.2	16.2															
S	2.5	7.1	2.0	.3	.0	12.0	11.8	11.8	11.5	12.4	12.5	11.4	11.4															
SW	1.6	3.5	1.2	.1	.0	6.5	11.3	11.3	4.7	6.8	7.7	7.5	7.5															
W	1.0	2.4	.8	*	.0	4.2	11.1	11.1	3.1	4.9	5.1	3.9	3.9															
NW	1.9	5.5	3.0	.5	.0	10.9	13.7	13.7	10.0	13.3	10.1	10.7	10.7															
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0															
CALM	1.1	1.20	587	44	1	1.1	.0	.0	.9	1.1	1.2	1.4	1.4															
TOT OBS	657	54.1	20.9	1.6	*	2809	11.7	11.7	871	633	738	567	567															
TOT PCT	23.4					100.0			100.0	100.0	100.0	100.0	100.0															

PERIOD: (PRIMARY) 1938-1970
(OVER-ALL) 1867-1970

APRIL

AREA 0009 AMAHI D SHIMA
27.6N 129.4E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	PCT		TOTAL OBS
				11-21	22-33	34-47			MEAN	FREQ	
00003	.9	7.7	39.3	45.1	6.8	.2	.0	.0	11.7	100.0	871
06009	1.1	4.4	40.0	46.6	7.7	.2	.0	.0	12.1	100.0	633
12015	1.2	6.0	42.7	43.6	6.5	.0	.0	.0	11.6	100.0	738
18021	1.4	6.5	42.3	41.3	8.3	.2	.0	.0	11.6	100.0	567
TOT	32	176	1150	1244	203	4	0	0	11.7		2809
PCT	1.1	6.3	30.9	44.3	7.2	.1	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	PCT FREQ							TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8-6	OBSCD	6			
N	3.8	2.2	3.3	5.1				5.1	5.1
NE	2.5	2.1	2.9	3.5				5.1	5.1
E	2.7	1.2	3.8	6.2				5.8	5.8
SE	3.2	2.5	4.4	7.4				5.6	5.6
S	3.5	1.9	4.8	5.9				5.5	5.5
SW	1.5	1.6	2.1	4.2				6.0	6.0
W	1.7	1.2	2.1	2.6				5.9	5.9
NW	1.9	1.6	3.2	3.7				5.4	5.4
VAR	.0	.0	.0	.0				.0	.0
CALM	.5	.2	.3	.7				5.1	5.1
TOT OBS	217	144	286	420				1069	
TOT PCT	20.3	13.5	26.9	39.3				100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)														TOTAL OBS
	000	149	150	299	300	599	600	999	1000	2000	3499	4999	5000	6499	
N	.2	.1	.1	.1	.1	.1	.6	.3	2.5	2.4	.4	.1	.1	.1	.2
NE	.0	.0	.0	.0	.4	.3	1.5	2.8	2.1	1.4	.1	.1	.1	.1	.2
E	.0	.0	.0	.0	.3	.2	2.0	3.3	2.8	2.2	.3	.3	.0	.0	.2
SE	.4	.1	.1	.1	.4	.2	2.3	2.7	1.9	1.4	.4	.4	.2	.2	.1
S	.1	.1	.1	.1	.5	.4	1.0	1.7	1.7	.6	.3	.1	.2	.1	.0
SW	.0	.0	.0	.0	.4	.4	.4	1.9	.9	.9	.2	.2	.0	.0	.1
W	.2	.0	.0	.0	.1	.1	1.0	2.8	1.8	1.8	.2	.2	.0	.0	.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS	9	6	25	98	212	139	22	5	6	7	537	1069			
TOT PCT	.8	.6	2.3	9.2	19.8	13.0	2.1	.7	.6	.7	50.2	100.0			

PERIOD: (PRIMARY) 1938-1970
(OVER-ALL) 1867-1970

APRIL

AREA 0009 AMAMI O SHIMA
27.6N 129.4E

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	OR >10	OR >5	OR >2	OR >1	OR >1/2	OR >1/4	OR >50YD	OR >0
OR >6500	.9	1.2	1.2	1.2	1.2	1.2	1.2	1.2
OR >5000	1.1	1.9	2.0	2.0	2.0	2.0	2.0	2.0
OR >3500	2.5	3.8	4.0	4.0	4.0	4.0	4.0	4.0
OR >2000	10.4	15.7	17.0	17.0	17.0	17.0	17.0	17.0
OR >1000	20.4	32.9	36.4	36.5	36.7	36.7	36.7	36.8
OR >600	23.5	40.2	44.9	45.5	45.7	45.7	45.7	45.8
OR >300	24.3	41.5	46.8	47.8	47.9	47.9	47.9	48.0
OR >150	24.3	41.9	47.4	48.3	48.5	48.5	48.5	48.6
OR > 0	24.3	42.3	47.9	49.1	49.3	49.3	49.3	49.4
TOTAL	260	452	512	524	526	527	527	528

TOTAL NUMBER OF OBS: 1068

PCT FREQ NH 5/8: 50.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
9.6	10.5	16.5	9.4	6.6	6.4	9.5	8.9	21.7	.9	1270

PERIOD: (PRIMARY) 1938-1970
(OVER-ALL) 1867-1970

APRIL

AREA 0009 AHAMI D SHIMA
27.6N 129.4E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NH)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	.1	.0	.1	*	*	*	.0	*	.0	.0	.2	
ND PCP	.0	.0	*	.1	.0	.1	.0	.0	.0	.0	.0	
TOT %	.1	.0	.1	.1	*	.1	.0	*	.0	.0	.5	
PCP	.0	.0	*	.1	.2	.1	.1	*	.0	.0	.5	
ND PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT %	.0	.0	*	.1	.2	.1	.1	*	.0	.0	.5	
PCP	*	.1	.2	.2	.3	.1	*	.0	.0	.0	1.0	
ND PCP	.0	*	.0	.1	.1	*	.1	.0	.0	.0	.3	
TOT %	*	.2	.2	.3	.4	.1	.1	.0	.0	.0	1.3	
PCP	.4	.2	.5	.5	.4	.1	.2	.2	.0	*	2.6	
ND PCP	.7	.5	.5	.7	.3	.3	.3	.3	.0	*	3.6	
TOT %	1.1	.7	1.0	1.2	.7	.4	.5	.5	.0	.1	6.2	
PCP	.5	.3	.9	1.1	.7	.3	.2	.6	.0	*	4.6	
ND PCP	3.9	2.8	3.1	3.4	3.0	1.8	1.0	2.2	.0	.2	21.4	
TOT %	4.4	3.2	3.9	4.5	3.7	2.1	1.2	2.8	.0	.2	26.0	
PCP	.1	.3	.3	.3	.2	.2	.1	.1	.0	.0	1.5	
ND PCP	12.1	11.8	9.9	10.0	6.5	3.2	2.3	7.3	.0	.9	64.0	
TOT %	12.2	12.1	10.2	10.3	6.7	3.4	2.4	7.4	.0	.9	65.5	
TOT OBS												2568
TOT PCT	17.9	16.1	15.5	16.5	11.6	6.3	4.3	10.7	.0	1.1	100.0	

APRIL

PERIOD: (PRIMARY) 1938-1970
(OVER-ALL) 1867-1970

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSRY (NH)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
	4-10	.2	.0	.0	.1	.1	.1	.0	*	.0	.0	.3	
	11-21	.2	.0	*	.0	.1	.1	.0	*	.0	.0	.4	
	22+	.2	.0	*	.1	.1	.1	.0	*	.0	.0	.1	
	TOT %	.2	.0	.1	.1	.1	.1	.0	.0	.0	.0	.8	
1/2<1	0-3	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
	4-10	.0	.0	.0	.1	.1	.1	.0	*	.0	.0	.2	
	11-21	.0	.0	.0	.0	.1	.1	.0	*	.0	.0	.2	
	22+	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.6	
1<2	0-3	.0	*	.1	.0	*	*	.0	.0	.0	.0	.1	
	4-10	.1	.1	.1	.1	.3	.1	.1	*	.0	.0	1.0	
	11-21	.1	.1	.2	.2	.2	.1	*	*	.0	.0	1.0	
	22+	.1	*	.1	.1	*	*	*	.0	.0	.0	.4	
	TOT %	.3	.2	.5	.4	.6	.3	.2	.1	.0	.0	2.5	
2<5	0-3	.0	.1	*	.1	.1	*	.1	*	.0	.1	.6	
	4-10	.7	.3	.3	.5	.4	.2	.2	.3	.0	.0	2.9	
	11-21	.5	.4	.7	.7	.6	.3	.2	.3	.0	.0	3.6	
	22+	.2	*	.1	.1	*	*	*	.2	.0	.0	.8	
	TOT %	1.4	.9	1.1	1.3	1.1	.6	.6	.8	.0	.1	7.9	
5<10	0-3	.2	.4	.2	*	.2	.1	.1	.1	.0	.2	1.5	
	4-10	1.3	1.2	1.4	1.7	1.4	.8	.3	.9	.0	.0	8.9	
	11-21	2.0	1.3	1.7	2.4	1.7	1.2	.7	1.3	.0	.0	12.2	
	22+	.6	.1	.6	.4	.2	*	.1	.4	.0	.0	2.4	
	TOT %	4.1	3.0	3.8	4.4	3.5	2.0	1.2	2.6	.0	.2	25.0	
10+	0-3	.6	1.2	1.1	.4	.3	.2	.2	.2	.0	.8	5.1	
	4-10	4.5	5.1	4.5	4.5	3.2	2.0	1.1	2.7	.0	.0	27.7	
	11-21	5.7	5.2	3.9	4.8	2.5	1.0	.8	3.2	.0	.0	27.1	
	22+	.9	.2	.4	.2	.4	.1	.1	1.1	.0	.0	3.3	
	TOT %	11.7	11.7	9.9	9.9	6.4	3.3	2.3	7.2	.0	.8	63.2	
TOT OBS													2722
TOT PCT		17.9	15.8	15.4	16.2	11.9	6.6	4.3	10.8	.0	1.1	100.0	

PERIOD: (PRIMARY) 1938-1970
(OVER-ALL) 1867-1970

APRIL

AREA 0009 AMAMI O SHIMA
27.6N 129.4E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	.3	1.3	1.6	5.5	17.7	13.2	1.6	1.0	.6	1.0	43.7	56.3	311
06009	.3	.0	1.4	8.3	20.3	11.0	1.7	.3	.3	.0	43.8	56.2	290
12015	.7	.7	3.4	9.5	13.3	11.9	1.0	1.0	.3	.3	42.2	57.8	294
18021	1.6	.0	2.0	9.5	19.3	10.2	3.0	.3	.7	1.0	47.5	52.5	305
TOT	9	6	25	98	212	139	22	8	6	7	532	668	1200
PCT	.8	.5	2.1	8.2	17.7	11.6	1.8	.7	.5	.6	44.3	55.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	1.1	1.5	4.7	25.5	67.3	275
06009	.0	.4	1.2	8.4	26.7	63.3	251
12015	.0	.0	1.8	5.5	29.8	62.9	275
18021	1.5	.0	.4	7.0	26.7	64.5	273
TOT	4	4	13	68	292	693	1074
PCT	.4	.4	1.2	6.3	27.2	64.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH > 4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	1.1	5.1	14.9	36.0	49.1	275
06009	.4	2.4	17.5	33.9	48.6	251
12015	.7	5.1	19.3	26.2	54.5	275
18021	3.7	5.5	19.4	34.8	45.8	273
TOT	16	49	191	351	532	1074
PCT	1.5	4.6	17.8	32.7	49.5	100.0

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PERIOD: (PRIMARY) 1938-1970
(OVER-ALL) 1867-1970

AREA 0009 AMAMI D SHIMA
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TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP											TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100					
85/89	.0	.1	.0	.0	.0	.0	.0	.0				1	.1
80/84	.0	.0	.0	.0	.0	.3	.2	.0				12	.7
75/79	.0	.0	.3	1.1	1.3	2.3	4.6	2.1				191	11.6
70/74	.0	.0	.9	4.0	5.8	7.0	11.8	13.3				703	42.8
65/69	.0	.0	.0	.3	5.8	10.5	6.0	5.2				579	35.3
60/64	.0	.0	.3	1.3	2.6	1.7	1.4	1.6				147	9.0
55/59	.0	.0	.0	.0	.2	.1	.0	.1				8	.5
50/54	.0	.0	.0	.0	.0	.1	.0	.0				1	.1
TOTAL	0	1	30	203	340	307	394	367				1642	100.0
PCT	.0	.1	1.8	12.4	20.7	18.7	24.0	22.4					

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP													VAR	CALM
N	NE	E	SE	S	SW	W	NW							
.1	.0	.0	.0	.0	.0	.0	.0						.0	.0
.0	.1	.0	.3	.2	.0	.1	.0						.0	.0
.9	1.8	1.9	2.0	2.6	1.4	.5	.5						.0	.1
4.3	9.1	8.7	7.8	5.4	3.2	1.6	2.7						.0	.9
9.8	7.2	5.1	4.4	2.2	.8	1.2	4.1						.0	.5
3.8	1.6	.9	.5	*	.0	.2	2.0						.0	.1
.3	*	*	.0	.0	.0	*	.1						.0	.0
.0	.0	.0	.0	.0	.0	*	*						.0	.0
19.1	18.8	16.6	15.0	10.5	5.4	3.6	9.4						.0	1.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR											TOTAL OBS
HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN			
0003	82	79	76	70	63	59	56	69.9			870
0609	86	81	77	71	63	59	55	70.6			630
1215	85	77	75	69	62	59	54	68.7			729
1821	82	76	74	68	61	55	53	67.9			564
TOT	86	79	76	70	63	57	53	69.3			2793

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR											TOTAL OBS
HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN		
0003	.0	14.7	21.2	17.5	23.0	23.5	23.0	23.5	77		565
0609	.0	23.2	20.0	20.8	20.0	20.8	23.2	12.8	72		375
1215	.0	8.6	18.3	16.9	18.9	28.2	27.9	27.9	79		362
1821	.0	10.0	22.9	20.2	22.0	24.9	24.9	24.9	77		341
TOT	0	235	340	307	394	367	367	367	76		1643

PERIOD: (PRIMARY) 1978-1970
(OVER-ALL) 1867-1970

APRIL

AREA 0009 ANAM7 D SHIMA
27.6N 129.4E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	53	57	61	65	69	73	77	81	85	TOT	W FOG	WD FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	*	1	.0	.
11/13	.0	.0	.0	.0	.0	.0	.0	.0	*	2	.0	.1
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	.0	.3
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	.0	.5
6	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	.0	.5
5	.0	.0	.0	.0	.0	.0	.0	.0	.0	36	.0	1.5
4	.0	.0	.0	.0	.0	.0	.0	.0	.0	75	.0	3.0
3	.0	.0	.0	.0	.0	.0	.0	.0	.0	41	.0	1.7
2	.0	.0	.0	.0	.0	.0	.0	.0	.0	191	.1	7.6
1	.0	.0	.0	.0	.0	.0	.0	.0	.0	105	.1	4.2
0	.0	.0	.0	.0	.0	.0	.0	.0	.0	366	.5	14.4
-1	.0	.0	.0	.0	.0	.0	.0	.0	.0	153	.1	6.1
-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	316	.2	12.6
-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	162	.0	6.5
-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	306	.0	12.4
-5	.0	.0	.0	.0	.0	.0	.0	.0	.0	220	.0	8.9
-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	137	.1	5.5
-7/-8	.0	.0	.0	.0	.0	.0	.0	.0	.0	205	.0	3.1
-9/-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	77	.0	3.1
-11/-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	28	.0	1.1
-14/-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	.0	.3
-17/-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.
TOTAL	12	38	300	904	438	88	9	2	2462	100.0	1.2	98.8
PCY	.5	1.5	12.2	26.4	36.7	18.6	3.6	.4	.1			

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N										NE										PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.2	.0	.0	.0	.0	.3	.5	.9	.0	.0	.0	.0	.5	.2	1.9	1.5	.0	.0	.0	.5
1-2	.0	2.4	1.5	.0	.0	.0	3.9	.2	.9	1.5	.0	.0	.0	3.6	.0	.0	.0	.0	.0	.0	3.6
3-4	.0	.9	2.6	.0	.0	.0	3.5	.0	.9	1.2	.0	.0	.0	2.1	.0	.0	.0	.0	.0	.0	2.1
5-6	.0	.8	.9	.0	.0	.0	1.7	.0	.4	1.0	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.0	1.5
7	.0	.2	1.2	.0	.0	.0	1.5	.0	.0	.8	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.8
8-9	.0	.0	.5	.6	.0	.0	1.1	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2
10-11	.0	.0	.2	.2	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	4.5	7.1	.8	.0	.0	12.5	.7	3.2	4.8	.0	.0	.0	8.8	.0	.0	.0	.0	.0	.0	.0

HGT	E										SE										PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	.1	.0	.0	.0	.0	.9	.1	1.2	.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	1.4
1-2	.4	2.0	2.1	.0	.0	.0	4.5	.0	3.1	1.8	.0	.0	.0	4.9	.0	.0	.0	.0	.0	.0	4.9
3-4	.0	.5	2.7	.2	.0	.0	4.1	.0	2.5	4.2	.4	.0	.0	7.1	.0	.0	.0	.0	.0	.0	7.1
5-6	.0	.1	.1	.3	.0	.0	1.6	.0	.6	2.6	.0	.0	.0	3.3	.0	.0	.0	.0	.0	.0	3.3
7	.0	.1	.1	.2	.0	.0	.5	.0	.0	.3	.2	.0	.0	.5	.0	.0	.0	.0	.0	.0	.5
8-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.2	.2	.0	.0	.4	.0	.0	.0	.0	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	4.6	5.1	1.1	.0	.0	12.0	.1	7.6	9.1	1.2	.0	.0	18.1	.0	.0	.0	.0	.0	.0	.0

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TABLE 18

PERIOD: (OVER-ALL) 1963-1970

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

WGT	S										SW									
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+
<1	.0	.3	.0	.0	.0	.0	.3	.0	.6	.0	.0	.0	.0	.6	.0	.6	.0	.0	.0	.0
1-2	.2	4.2	2.9	.0	.0	.0	7.3	.2	1.3	1.0	.0	.0	.0	2.6	.2	1.3	1.0	.0	.0	.0
3-4	.2	2.2	4.2	.6	.0	.0	7.2	.0	1.5	2.2	.2	.0	.0	3.9	.0	1.5	2.2	.0	.0	.0
5-6	.0	.2	2.2	.3	.0	.0	2.7	.0	.0	1.2	.1	.2	.0	1.5	.0	.0	1.2	.2	.0	.0
7	.0	.0	.7	.4	.0	.0	1.1	.0	.0	.2	#	.0	.0	.3	.0	.0	.2	.0	.0	.0
8-9	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	.0	.0	.0
20-23	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
24-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
28-31	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
32-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
YOT PCT	.4	6.9	10.0	1.8	.0	.0	19.1	.2	3.4	4.7	.9	.2	.0	9.4	.2	3.4	4.7	.9	.2	.0

WGT	W										NW									
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+
<1	.0	.2	.2	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0
1-2	.1	1.2	.6	.0	.0	.0	1.9	.0	2.1	.8	.0	.0	.0	2.9	.0	2.1	.8	.0	.0	.0
3-4	.2	.9	1.0	.0	.0	.0	2.1	.0	1.6	2.3	.0	.0	.0	3.9	.0	1.6	2.3	.0	.0	.0
5-6	.0	.5	.5	.0	.0	.0	1.0	.0	.2	2.0	.6	.0	.0	2.9	.0	.2	2.0	.6	.0	.0
7	.0	.0	.5	.3	.0	.0	1.0	.0	.0	.4	.6	.0	.0	1.0	.0	.0	.4	.6	.0	.0
8-9	.0	.0	.2	.2	.0	.0	.4	.0	.0	.3	.4	.0	.0	.7	.0	.0	.3	.4	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.4	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.2	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-23	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
24-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
28-31	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
32-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
YOT PCT	.3	2.9	3.0	.9	.0	.0	7.1	.0	4.4	5.8	2.4	.0	.0	12.6	.0	4.4	5.8	2.4	.0	.0

PERIOD: (OVER-ALL) 1969-1970

APRIL

AREA 0009 ANAMI O SHIMA
27.6N 129.4E

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)							TOT OBS
	0-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	2.4	3.3	.2	.0	.0	.0	5.9	
1-2	1.2	18.1	12.2	.0	.0	.0	31.4	
3-4	.6	12.2	19.6	1.4	.0	.0	33.8	
5-6	.0	3.3	11.2	1.4	.2	.0	16.1	
7	.0	.4	4.3	2.0	.0	.0	6.7	
8-9	.0	.0	1.4	2.0	.0	.0	3.3	
10-11	.0	.0	.2	1.6	.0	.0	1.8	
12	.0	.0	.0	.4	.0	.0	.4	
13-16	.0	.0	.0	.4	.0	.0	.4	
17-19	.0	.0	.0	.2	.0	.0	.2	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.1	37.3	49.1	9.2	.2	.0	100.0	
							509	

PERIOD: (OVER-ALL) 1969-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SECS)	PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)																			TOTAL	MEAN HGT	
	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+			
<1	1.3	19.4	10.6	8.8	2.2	.7	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	391	3
1-2	.0	2.1	6.2	10.9	2.8	.9	.4	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	218	5
3-4	.0	.0	2.3	4.3	2.9	4.0	.5	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	104	6
5-6	.0	.2	.6	1.1	1.0	.7	.4	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	34	7
7-9	.0	.0	.2	.1	.1	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	10
10-11	.0	.0	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	3
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	61	4
TOTAL	2.3	21.0	21.1	26.7	10.5	9.3	2.0	.5	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

MAY

PERIOD: (PRIMARY) 1927-1970
(OVER-ALL) 1861-1970AREA 0009 AMAMI O SHIMA
27.8N 129.5E

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN SHR	RAIN SHR	ORZL SHR	PRECIPITATION TYPE			HAIL PCPN	PCT FREQ PCPN AT OBS TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				FRZC PCPN	SNOW PCPN	OTHER PCPN					FOG PCPN	SMOKE HAZE	DUST BLWG	SIG SNOW	NO WEA	
N	1.0	1.1	.0	.0	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.0	9.0	
NE	1.2	.3	.7	.0	.0	.0	.0	2.0	.0	.0	.2	.1	.0	.0	12.1	
E	1.9	.3	1.3	.0	.0	.0	.0	3.2	.0	.0	.3	.0	.0	.0	16.8	
SE	2.0	.1	1.0	.0	.0	.0	.0	2.8	.0	.2	.0	.0	.0	.0	11.5	
S	2.1	.3	.4	.0	.0	.0	.0	2.8	.0	.1	.3	.1	.0	.0	10.8	
SW	.9	.2	.2	.0	.0	.0	.0	1.4	.0	.1	.2	.1	.0	.0	8.0	
W	.5	.2	.3	.0	.0	.0	.0	1.8	.0	.2	.1	.0	.0	.0	5.7	
NW	.0	.2	.5	.0	.0	.0	.0	1.2	.0	.0	.0	.1	.0	.0	7.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	1.1	
TOT OBS	22	33	106	.0	.0	.0	.0	15.8	331	14	25	10	.0	.0	1723	2099
TOT PCT	10.0	1.6	5.1	.0	.0	.0	.0			.7	1.2	.5	.0	.0	82.1	

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN SHR	RAIN SHR	ORZL SHR	PRECIPITATION TYPE			HAIL PCPN	PCT FREQ PCPN AT OBS TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				FRZC PCPN	SNOW PCPN	OTHER PCPN					FOG PCPN	SMOKE HAZE	DUST BLWG	SIG SNOW	NO WEA	
0000	9.5	2.3	3.9	.0	.0	.0	.0	14.6	.0	.7	1.1	.2	.0	.0	84.1	
0600	11.9	1.2	6.2	.0	.0	.0	.0	16.6	.0	.0	1.2	.4	.0	.0	81.9	
1200	11.6	1.4	4.6	.0	.0	.0	.0	17.4	.0	.7	1.3	.4	.0	.0	80.3	
1800	8.8	1.3	4.4	.0	.0	.0	.0	13.8	.0	1.3	1.5	1.0	.0	.0	82.4	
TOT	22	33	106	.0	.0	.0	.0	15.6	331	14	26	10	.0	.0	1740	2117
PCT	10.0	1.6	5.0	.0	.0	.0	.0			.7	1.2	.5	.0	.0	82.2	

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AREA 0009 AMAMI O-SHIMA:
27.8N 129.5E

2.2.2

TABLE 2
FREQUENCY OF WIND DIRECTION BY SPEED AND HOUR

[illegible]

TABLE 3A

WIND DIR	WIND	SPEED	(KNOTS)	41+	TOTAL	PCT	MEAN	HOUR	(GMT)
0-6	7-16	17-27	28-40		OBS	FREQ	SPD	00	01
220	19	13	11	0	0	11	11	0	18
220	19	13	11	0	0	11	11	0	12
220	19	13	11	0	0	11	11	0	15
220	19	13	11	0	0	11	11	0	12
220	19	13	11	0	0	11	11	0	15
220	19	13	11	0	0	11	11	0	12
220	19	13	11	0	0	11	11	0	15
220	19	13	11	0	0	11	11	0	12
220	19	13	11	0	0	11	11	0	15
220	19	13	11	0	0	11	11	0	12
220	19	13	11	0	0	11	11	0	15
220	19	13	11	0	0	11	11	0	12
220	19	13	11	0	0	11	11	0	15
220	19	13	11	0	0	11	11	0	12
220	19	13	11	0	0	11	11	0	15
220	19	13	11	0	0	11	11	0	12
220	19	13	11	0	0	11	11	0	15
220	19	13	11	0	0	11	11	0	12
220	19	13	11	0	0	11	11	0	15
220	19	13	11	0	0	11	11	0	12
220	19	13	11	0	0	11	11	0	15
220	19	13	11	0	0	11	11	0	12
220	19	13	11	0	0	11	11	0	15
220	19	13	11	0	0	11	11	0	12
220	19	13	11	0	0	11	11	0	15
220	19	13	11	0	0	11	11	0	12
220	19	13	11	0	0	11	11	0	15
220	19	13	11	0	0	11	11	0	12
220	19	13	11	0	0	11	11	0	15
220	19	13	11	0	0	11	11	0	12
220	19	13	11	0	0	11	11	0	15
220	19	13	11	0	0	11	11	0	12
220	19	13	11	0	0	11	11	0	15
220	19	13	11	0	0	11	11	0	12
220	19	13	11	0	0	11	11	0	15
220	19	13	11	0	0	11	11	0	12
220	19	13	11	0	0	11	11	0	15
220	19	13	11	0	0	11	11	0	12
220	19	13	11	0	0	11	11	0	15
220	19	13	11	0	0	11	11	0	12
220	19	13	11	0	0	11	11	0	15
220	19	13	11	0	0	11	11	0	12
220	19	13	11	0	0	11	11	0	15
220	19	13	11	0	0	11	11	0	12
220	19	13	11	0	0	11	11	0	15
220	19	13	11	0	0	11	11	0	12

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AREA 0009 AHAMI U SHINA
27.0N. 129.5E.

PERCENTAGE FREQUENCY OF WIND SPEED-11 HOUR (GMT)

HOURL	CALM	1-3	4-10	WIND 11-21	SPEED (KNOTS) 22-33	SEA 34-47	MEAN	PCT FREQ	TOTAL OBS
0600	5	5.0	4.1	4.7	5.6	1	12.0	100.0	604
0800	1.5	5.5	42.3	40.1	4.8	0	11.6	100.0	545
1000	1.5	5.1	47.5	41.1	5.0	0	11.2	100.0	604
1200	2.4	3.6	46.4	41.4	5.3	0	11.4	100.0	498
TOT	32	109	993	912	117	0	11.5	100.0	2251
PCT	1.4	4.8	44.2	44.1	5.2	0			

TABLE 6

[illegible]

PERIOD: (PRIMARY) 194-1970
(OVERALL) 1943-1970

MAY

AREA 0009 AMAHI O SHIMA
27.8N 129.5E

TABLE 6

CUMULATIVE PCT AREA OF SIMULTANEOUS OBSERVATIONS
OF CEILING HEIGHT (IN FEET) AND WIND SPEED (KTS)

CEILING (FEET)	OR >10	OR >5	OR >25	OR >50	OR >50	OR >50
OR >3000	1.4	1.7	1.7	1.8	1.8	1.8
OR >2500	1.7	2.1	2.2	2.2	2.2	2.2
OR >2000	2.0	2.8	3.1	3.2	3.2	3.2
OR >1500	2.1	3.8	4.1	4.1	4.1	4.1
OR >1000	2.4	4.9	5.1	5.1	5.1	5.1
OR >500	2.8	6.7	7.1	7.1	7.1	7.1
OR >200	3.2	8.7	9.1	9.1	9.1	9.1
OR >100	3.6	10.7	11.1	11.1	11.1	11.1
OR >50	4.0	12.7	13.1	13.1	13.1	13.1
OR >20	4.4	14.7	15.1	15.1	15.1	15.1
OR >10	4.8	16.7	17.1	17.1	17.1	17.1
OR >5	5.2	18.7	19.1	19.1	19.1	19.1
OR >0	5.6	20.7	21.1	21.1	21.1	21.1
TOTAL	5.6	20.7	21.1	21.1	21.1	21.1

TOTAL NUMBER OF OBS: 1110

PCT AREA: 46.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (S)

0	1	2	3	4	5	6	7	8	9	TOTAL OBS
6.7	1.3	13.8	9.7	7.0	7.8	6.9	5.4	2.8	1.3	1202

PERIOD: (PRIMARY) 1957-1970
(OVER-ALL) 1861-1970

MAY

AREA: 0009 AHAMI D. SHIMA
27.8N 129.5E

TABLE 8

PERCENT FREQ OF WIND DIRECTION, VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

WIND (NH)	N	NE	E	SE	S	SW	W	NW	VAR.	CALM	PCT	TOTAL OBS
PCP	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.3
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4
TOT %	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.7
PCP	.0	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.3
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3
TOT %	.0	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.6
PCP	.1	.1	.4	.5	.1	.0	.0	.0	.0	.0	.0	1.3
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4
TOT %	.1	.1	.4	.5	.1	.0	.0	.0	.0	.0	.0	1.8
PCP	.3	.5	.8	.8	.8	.3	.3	.2	.0	.0	.0	4.1
NO PCP	.4	.8	.4	.4	.3	.4	.1	.3	.0	.0	.0	3.2
TOT %	.7	1.3	1.2	1.2	1.1	.7	.4	.5	.0	.0	.1	7.2
PCP	.9	.9	1.3	1.1	1.4	.7	.4	.7	.0	.0	.0	7.5
NO PCP	1.9	3.1	4.2	2.6	3.6	2.1	1.7	1.8	.0	.2	.2	21.4
TOT %	2.8	4.0	5.5	4.0	5.0	2.8	2.0	2.6	.0	.2	.2	28.9
PCP	.2	.3	.5	.3	.3	.2	.2	.2	.0	.0	.0	2.2
NO PCP	6.8	8.3	12.4	8.5	7.0	5.6	4.2	4.9	.0	1.0	.0	58.7
TOT %	7.0	8.6	12.9	8.8	7.3	5.8	4.3	5.1	.0	1.0	.0	60.9
TOT OBS												2093
TOT PCT	10.7	14.3	20.2	14.6	14.0	9.6	6.9	8.2	.0	1.4	100.0	

PERIOD 1961-1970
(OVERALL)

MAY

AREA 0009 ANANTO-SHINA
27.0N 129.5E

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

WIND (NH)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
0-5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6-10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11-21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22+	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOT N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0-5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6-10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11-21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22+	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOT N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0-5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6-10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11-21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22+	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOT N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0-5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6-10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11-21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22+	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOT N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0-5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6-10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11-21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22+	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOT N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0-5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6-10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11-21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22+	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOT N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0-5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6-10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11-21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22+	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOT N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOT OBS	10.6	14.3	20.1	14.8	14.0	9.8	6.9	8.1	0.0	1.4	100.0	2188

AREA 0009 AMAMI D. SHIMA
27.8N 129.5E

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8), AND
OCCURRENCE OF NH <5/8 BY HOUR

	NHUR (TOT)	000 199	180 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS.
00203	1.7	1.3	3.0	12.0	20.7	9.7	1.3	1.0	.3	.7	51.8	48.2	299	
06109	.7	.6	7.0	7.0	21.5	10.4	2.2	.0	1.1	.0	49.6	50.4	270	
12616	1.0	1.4	3.0	10.0	10.9	13.5	1.7	.3	1.0	1.7	53.4	46.6	296	
18221	1.0	.3	4.0	10.1	21.5	11.9	2.0	.0	.3	1.7	52.9	47.1	297	
TOT	13	10	45	119	240	132	21	4	8	12	604	558	1162	
PCT	1.1	.9	3.9	10.2	20.7	11.4	1.8	.3	.7	1.0	52.0	48.0	100.0	

TABLE 12

HOUR (GMT)	PERCENT FREQUENCY VSBY (NM) BY HOUR						TOTAL OBS	CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) CEILING HGT (FEET) NH >4/8) BY HOUR						TOTAL OBS
	<1/8	1/8<1	1/2<3	2<3	5<10	10+		HOUR (GMT)	<150 <500)	<600 <1000	1000+ AND 5+	NH <5/8 AND 5+		
0000Z	.4	.4	2.1	4.9	15.3	67.0	205	00003	1.8	6.7	20.4	33.7	46.0	285
0600Z	.6	.0	2.0	7.9	25.7	63.6	233	06009	1.2	7.9	20.2	34.0	45.8	253
1200Z	1.0	.3	1.0	7.3	20.2	62.0	237	12015	1.4	6.6	22.0	33.8	44.3	287
1800Z	1.0	.3	.3	7.9	31.0	59.3	290	18021	2.4	7.2	19.7	35.2	45.2	290
TOT OBS	.8	.3	1.8	7.0	20.8	702	1115	TOT PCT	1.9	7.9	23.9	38.1	505	1115
	.8	.3	1.3	7.0	27.6	63.0	100.0		1.7	7.1	20.5	34.2	45.3	100.0

MAY

PERIOD (PRIMARY) 1937-1970
(OVERALL) 1881-1970

AREA 0009 ANAMI O SHINA
27.8N 129.5E

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
92.7	0	0	0	0	0	1	0	0	1	.1
92.4	0	0	0	0	0	1	0	0	2	.3
92.1	0	0	0	0	0	2	0	0	37	3.2
91.8	0	0	0	0	0	1	0	0	37	3.2
91.5	0	0	0	0	0	0	0	0	429	37.0
91.2	0	0	0	0	0	0	0	0	366	48.0
90.9	0	0	0	0	0	0	0	0	111	9.6
90.6	0	0	0	0	0	0	0	0	13	1.1
90.3	0	0	0	0	0	0	0	0	1160	100.0
90.0	0	0	0	0	0	0	0	0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
92.7	0	0	0	0	1	0	0	0	0	0
92.4	0	0	0	1	1	0	0	0	0	0
92.1	0	0	0	1	1	0	0	0	0	0
91.8	0	0	0	5	8	7	5	*	0	0
91.5	2	2	6	5	7	7	3	1	0	0
91.2	2	3	6	5	5	2	3	5	0	0
90.9	5	7	11	6	5	2	3	5	0	0
90.6	1	3	2	8	5	*	4	8	0	0
90.3	3	3	0	1	1	0	0	4	0	0
90.0	9	14	20	13	14	10	7	7	0	1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (OBS P) BY HOUR

HOUR	MAX	99%	95%	50%	5%	MIN	MEAN	TOTAL OBS
0000	84	82	80	74	60	64	73.0	602
0000	70	63	59	73	60	64	73.7	343
0000	82	80	78	73	60	63	72.6	602
0000	81	79	77	72	60	63	72.2	495
0000	90	82	79	73	60	64	73.1	2244

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	0	5	13	13	20	25	34	4	81	320
0000	0	7	17	17	28	27	18	6	78	285
0000	0	3	9	9	17	17	34	3	82	286
0000	0	4	8	8	14	14	41	7	85	283
TOT	0	51	145	145	241	358	379	82		1174

PERIOD: (PRIMARY), 1937-1970
(OVER-ALL), 1861-1970

MAY

AREA 0009 AMAMI D SHIMA
27.8N 129.5E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	57	61	65	69	73	77	81	85	89	TOT	W FOG	WD FOG
14/16	.0	.0	.0	.0	*	.0	.0	.0	.0	1	.0	*
11/13	.0	.0	.0	.0	.0	.0	.0	*	.0	2	.0	.1
9/10	.0	.0	.0	.0	.0	.0	.1	.0	.0	4	.0	.2
7/0	.0	.0	.0	.0	.2	.1	.3	.0	.0	14	.0	.7
6	.0	.0	.0	.0	.1	.2	.1	.0	.0	8	.0	.4
5	.0	.0	.0	.1	.9	.7	.5	.0	.0	48	.1	2.3
4	.0	.0	.0	.3	1.5	2.2	.2	.0	*	89	.1	4.3
3	.0	.0	.0	*	.9	1.6	.0	.0	.0	52	.0	2.6
2	.0	.1	.2	1.7	5.4	3.6	.2	.0	.0	227	.2	11.0
1	.0	.1	.0	.4	3.1	1.8	.1	.0	.0	110	.1	5.4
0	.0	.1	.0	5.2	10.4	2.8	.4	.0	.0	403	.4	19.6
-1	.0	.0	.1	2.1	3.5	.5	.1	.0	.0	128	*	6.3
-2	.0	.0	1.6	5.8	6.8	1.3	.0	.0	.0	315	.0	15.6
-3	.0	.0	.2	2.0	2.4	.2	.0	.0	.0	99	.0	4.9
-4	.0	.4	2.0	5.2	1.3	.4	.0	.0	.0	221	.2	10.8
-5	.0	.0	1.1	2.0	1.3	.0	.0	.0	.0	116	.0	5.8
-6	.0	.0	.2	1.2	.3	.0	.0	.0	.0	50	.0	2.5
-7/-0	.0	.4	1.1	2.2	.4	.1	.0	.0	.0	87	*	4.3
-9/-10	.0	.2	.8	.2	.1	*	.0	.0	.0	29	.0	1.4
-11/-13	.0	.1	.2	*	.0	.0	.0	.0	.0	9	.0	.4
-14/-16	.0	.1	*	.0	.0	.0	.0	.0	.0	3	.0	.1
TOTAL	2	43	101	609	815	317	44	3	1	2015	26	1989
PCT	.1	2.1	9.0	30.2	40.4	15.7	2.2	.1	*	100.0	1.3	98.7

PERIOD: (OVER-ALL) 1963-1970

MAY

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

AREA 0009 AMAMI O SHIMA
27.8N 129.5E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2	.2	.6	.0	.0	.0	.0	.8
1-2	.0	2.6	2.8	.0	.0	.0	5.4	.2	2.5	1.1	.0	.0	.0	3.7
3-4	.0	1.7	3.9	.3	.0	.0	6.0	.2	.0	4.1	.2	.0	.0	5.2
5-6	.0	.4	1.6	.1	.0	.0	2.1	.0	.0	.9	.0	.0	.0	.9
7	.0	.1	1.3	.4	.0	.0	1.8	.0	*	.6	.0	.0	.0	.7
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.0	9.6	1.3	.0	.0	15.9	.4	4.0	6.7	.2	.0	.0	11.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6	.2	.4	.0	.0	.0	.0	.6
1-2	.2	1.0	.3	.2	.0	.0	1.5	.4	2.3	.2	.0	.0	.0	2.9
3-4	.0	1.1	1.5	.2	.0	.0	2.8	.0	1.9	.6	.0	.0	.0	2.5
5-6	.0	.2	1.5	.0	.0	.0	1.7	.0	.4	.7	.0	.0	.0	1.2
7	.0	.0	.3	.0	.0	.0	.3	.0	.0	.4	.6	.0	.0	1.0
8-9	.0	.0	.1	.2	.0	.0	.3	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.8	.0	.0	.8
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.9	4.1	.4	.0	.0	7.5	.6	5.1	2.1	1.4	.0	.0	9.1

AREA 0009 AMAMI O SHIMA
27.8N 129.5E

MAY

PERIOD: (OVER-ALL) 1963-1970

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)							TOT OBS
	0-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	2.7	3.7	.0	.0	.0	.0	6.4	
1-2	1.0	17.7	9.4	.0	.0	.0	28.1	
3-4	.2	12.3	24.9	1.3	.0	.0	38.7	
5-6	.0	3.1	10.6	1.0	.0	.0	14.6	
7	.0	.3	6.2	2.1	.0	.0	9.1	
8-9	.0	.0	1.0	.4	.0	.0	1.3	
10-11	.0	.0	.6	1.0	.0	.0	1.5	
12	.0	.0	.0	.2	.0	.0	.2	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.9	37.6	52.6	6.0	.0	.0	100.0	
							519	

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)																			TOTAL	MEAN HGT	
	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+			
<6	1.8	14.1	19.8	6.5	2.8	1.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	418	3
6-7	.0	1.6	8.0	8.4	5.1	1.1	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	224	5
8-9	.0	.4	1.3	3.8	3.2	2.0	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	104	6
10-11	.0	.3	.8	.7	1.1	.4	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	35	8
12-13	.0	.0	.1	.0	.3	.2	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	8
>13	.0	.0	.0	.2	.1	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	8
INDET	3.0	2.8	2.7	1.7	.7	.2	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	102	3
TOTAL	43	173	295	192	120	47	21	10	1	0	0	0	0	0	0	0	0	0	0	0	902	4
PCT	4.8	19.2	32.7	21.3	13.3	5.2	2.3	1.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

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TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT OB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				FRZG PCPN	SNOW PCPN	OTHER PCPN					FOG PCPN	SMOKE WD	DUST BLWG	DUST BLWG	SIG WEA	
N	.5	.1	.1	.0	.0	.0	.0	.7		.0	.1	.1	.0	.0	4.4	
NE	1.2	.1	.3	.0	.0	.0	.0	1.6		.0	.1	.1	.0	.0	6.5	
E	2.2	.2	1.2	.0	.0	.0	.0	3.5		.0	.2	.0	.0	.0	9.8	
SE	1.8	.2	.3	.1	.0	.0	.0	2.3		.1	.4	.0	.0	.0	10.5	
S	1.8	.5	.5	.0	.0	.0	.0	2.7		.5	.1	.1	.0	.0	20.6	
SW	2.8	.3	.5	.0	.0	.0	.0	3.6		.5	.5	.1	*	*	16.8	
W	1.2	.1	.1	.0	.0	.0	.0	1.3		.1	.1	.0	.0	.0	4.8	
NW	.4	.1	.2	.0	.0	.0	.0	.7		*	.1	.1	.0	.0	4.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.1	.0	.0	.0	.0	.1		.0	.0	.1	.0	.0	.7	
TOT OBS	220	28	60	1	0	0	0	16.5	303	20	27	9	1	1	1482	1841
TOT PCT	12.0	1.5	3.3	.1	.0	.0	.0			1.1	1.5	.5	.1	.1	80.5	

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT OB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				FRZG PCPN	SNOW PCPN	OTHER PCPN					FOG PCPN	SMOKE WD	DUST BLWG	DUST BLWG	SIG WEA	
0003	10.0	2.1	2.8	.0	.0	.0	.0	14.6		.2	1.9	.9	.2	.2	82.2	
0609	11.8	.9	3.8	.2	.0	.0	.0	16.3		.2	.4	.7	.0	.0	82.4	
12015	13.3	1.2	3.5	.0	.0	.0	.0	17.5		2.3	1.2	.4	.0	.0	78.8	
18021	12.8	1.9	2.9	.0	.0	.0	.0	17.4	305	1.4	2.7	.2	.0	.0	78.3	
TOT	222	28	60	1	0	0	0	16.5		20	28	10	1	1	1490	1853
PCT	12.0	1.5	3.2	.1	.0	.0	.0			1.1	1.5	.5	.1	.1	80.4	

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TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21	
N	.6	3.0	1.5	.1	.0	.0	.0	5.3	9.0	5.1	5.3	5.0	5.1	7.0	4.4	4.4	5.3	
NE	.7	4.2	2.6	.7	*	.0	.0	8.2	10.8	7.4	9.3	10.4	9.3	7.7	6.0	5.6	10.3	
E	.5	6.0	6.2	.7	.1	.0	.0	13.5	11.9	12.0	14.3	12.4	14.7	10.2	17.5	12.3	17.0	
SE	.8	7.6	4.1	.7	.0	.0	.0	13.2	10.4	12.5	12.1	10.2	13.0	11.6	17.4	14.1	16.8	
S	1.0	11.2	10.1	1.3	.0	.0	.0	23.6	11.5	26.5	20.1	22.8	21.6	25.1	23.5	26.9	20.7	
SW	.6	9.4	11.3	1.7	.1	.0	.0	23.1	12.6	24.9	24.4	24.4	23.6	22.1	19.2	25.4	20.0	
W	.4	2.7	3.0	.5	.0	.0	.0	6.7	12.1	6.9	6.4	6.9	6.1	8.5	5.4	6.3	6.3	
NW	.7	3.1	1.6	.1	.0	.0	.0	5.5	9.0	4.4	7.2	7.6	5.4	5.2	6.1	4.0	3.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.9	81.4	81.4	120	.4	0	2014	.9	.0	.4	.7	.3	1.1	2.6	.4	1.2	.6	
TOT OBS	123	953	40.4	6.0	.2	.0	11.3	100.0	11.3	261	272	294	185	310	257	236	179	
TOT PCT	6.1	47.3								100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-6	7-16	17-27	28-40	41+				00	03	06	09	12	15	18	21
N	1.9	3.0	.3	.0	.0	.0	5.3	9.0	5.2	5.1	5.8	5.1	5.8	4.8		
NE	2.9	3.7	1.3	.3	.0	.0	8.2	10.8	8.3	10.0	7.0	10.0	7.0	7.5		
E	2.8	7.6	3.0	.2	.0	.0	13.5	11.9	13.2	13.2	13.3	13.5	13.5	14.3		
SE	3.8	7.3	2.1	.1	.0	.0	13.2	10.4	12.3	12.3	11.3	14.2	14.2	15.2		
S	5.0	14.3	4.0	.3	.0	.0	23.6	11.5	23.3	23.3	22.3	24.2	24.2	24.3		
SW	3.9	13.3	5.3	.5	.0	.0	23.1	12.6	24.7	24.7	24.1	20.8	20.8	24.3		
W	1.4	3.6	1.6	.1	.0	.0	6.7	12.1	5.7	5.7	6.6	7.1	7.1	6.3		
NW	2.1	3.0	.4	.1	.0	.0	5.5	9.0	5.8	5.8	6.7	5.6	5.6	3.6		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	.9	1122	361	34	0	2014	.9	.0	.6	.6	.6	.6	1.6	.9		
TOT OBS	497	55.7	17.9	1.7	.0		100.0	11.3	533	479	479	567	567	435		
TOT PCT	24.7								100.0	100.0	100.0	100.0	100.0	100.0		

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GHT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT	TOTAL
										OBS
00003	.6	4.9	47.1	41.8	5.3	.4	.0	11.3	100.0	533
06009	.6	5.2	42.6	43.4	8.1	.0	.0	11.8	100.0	479
12015	1.6	5.1	51.0	36.9	5.3	.2	.0	10.8	100.0	567
18021	.9	5.5	48.0	40.0	5.3	.2	.0	11.2	100.0	435
TOT	19	104	953	814	120	4	0	11.3		2014
PCT	.9	5.2	47.3	40.4	6.0	.2	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 &	TOTAL
					OBS
N	.5	.5	1.2	2.9	6.3
NE	.8	.9	2.2	3.6	6.2
E	1.1	1.8	3.4	6.0	6.2
SE	1.5	1.3	3.0	3.9	6.0
S	3.1	2.9	12.0	7.7	5.9
SW	2.9	3.3	9.8	7.8	5.8
W	.3	.7	3.7	3.1	6.5
NW	.5	.2	1.4	2.7	6.6
VAR	.0	.0	.0	.0	.0
CALM	.2	.3	.3	.3	5.3
TOT OBS	115	123	403	393	1034
TOT PCT	11.1	11.9	39.0	38.0	100.0

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	ANY HGT	TOTAL
												OBS
N	.3	.0	.3	.9	1.1	.7	.1	.0	.0	.0	.0	1.9
NE	.3	.1	.4	.6	1.7	1.2	.3	.0	.0	.0	.0	2.9
E	.4	.0	.3	1.2	2.4	1.6	.1	.2	.0	.2	.2	5.9
SE	.1	.1	.4	1.2	2.1	.8	.4	.2	.1	*	.6	6.3
S	.3	.1	.8	2.2	5.9	1.8	.4	.3	.2	.4	.4	13.1
SW	.3	.1	.6	2.5	3.9	2.5	.8	.3	.1	.2	.2	12.5
W	.2	.0	.4	1.4	1.6	.7	.2	.0	.0	.2	.3	3.3
NW	*	.0	.2	.6	1.2	.6	.3	.0	.1	.0	.0	1.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.6
TOT OBS	19	4	35	109	207	104	28	12	5	11	500	1034
TOT PCT	1.8	.4	3.4	10.5	20.0	10.1	2.7	1.2	.5	1.1	48.4	100.0

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TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	VSBY (NH) = OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	1.1	1.6	1.6	1.6	1.6	1.6	1.6	1.6
= OR >5000	1.9	2.6	2.7	2.7	2.7	2.7	2.7	2.7
= OR >3500	3.8	5.0	5.2	5.2	5.3	5.3	5.3	5.3
= OR >2000	10.6	14.7	15.2	15.2	15.3	15.3	15.3	15.3
= OR >1000	20.8	33.0	34.9	35.2	35.3	35.4	35.4	35.4
= OR >600	24.5	40.7	44.4	45.3	45.8	45.9	45.9	45.9
= OR >300	25.0	42.9	47.4	48.4	49.0	49.1	49.1	49.1
= OR >150	25.0	43.1	47.7	48.8	49.4	49.5	49.5	49.5
= OR >0	25.4	44.1	49.0	50.4	51.0	51.2	51.3	51.3
TOTAL	262	455	505	520	516	528	529	529

TOTAL NUMBER OF OBS: 1031

PCT FREQ NH <5/8: 48.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	3.7	11.1	15.5	9.0	8.3	8.2	9.2	9.7	23.1	2.2	1078

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	*	*	.1	*	*	.1	*	.1	.0	.1	.5	
ND PCP	.0	.0	.0	*	*	.0	.0	.0	.0	.0	.1	
TOT %	*	*	.1	*	.1	.1	*	.1	.0	.1	.6	
PCP	.0	.1	.2	.1	.2	.2	.1	*	.0	.0	1.0	
ND PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT %	.0	.1	.2	.1	.2	.2	.1	*	.0	.0	1.0	
PCP	.1	.1	.5	.1	.1	.5	.2	.1	.0	.0	.7	
ND PCP	.0	.1	.1	.1	.0	.1	.0	.1	.0	.0	.3	
TOT %	.1	.2	.5	.1	.1	.6	.2	.1	.0	.0	2.0	
PCP	.1	.5	1.0	.7	.7	.8	.4	.2	.0	.0	4.4	
ND PCP	.2	.1	.3	.4	.5	1.0	.1	.1	.0	.1	2.7	
TOT %	.2	.7	1.3	1.1	1.2	1.8	.5	.3	.0	.1	7.1	
PCP	.4	.6	1.2	1.0	1.3	1.6	.4	.3	.0	.0	6.9	
ND PCP	1.2	1.5	3.0	2.9	5.3	5.4	1.5	1.5	.0	.1	22.4	
TOT %	1.6	2.1	4.2	3.9	6.6	7.0	2.0	1.7	.0	.1	29.2	
PCP	.1	.2	.4	.4	.2	.5	.1	.1	.0	.0	2.1	
ND PCP	3.2	4.9	6.6	7.4	15.4	13.4	3.4	3.0	.0	.7	58.0	
TOT %	3.3	5.1	7.0	7.8	15.7	13.9	3.6	3.1	.0	.7	60.0	
TOT OBS	5.3	8.2	13.4	13.1	23.9	23.5	6.3	5.4	.0	.8	100.0	
TOT PCT												1837

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TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.0	.1	*	*	.0	.0	.1	.0	.0	.3	
	11-21	.0	.0	.0	.0	*	*	*	.0	.0	.0	.1	
	TOT %	*	*	.1	.1	.1	.2	*	.1	.0	.1	.8	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.1	*	.1	.1	.1	*	.0	.0	.0	.3	
	11-21	.0	.0	.2	*	.2	.1	.1	*	.0	.0	.7	
	TOT %	.0	.1	.2	.1	.3	.2	.1	*	.0	.0	1.0	
1<2	0-3	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.1	.1	.2	.2	.2	.1	.1	*	.0	.0	.9	
	11-21	.0	.1	.6	*	.1	.5	.2	.1	.0	.0	1.6	
	TOT %	*	*	.8	.3	.3	.7	.2	.1	.0	.0	2.8	
2<5	0-3	.0	.1	.0	.1	.0	.0	.0	.1	.0	.1	.2	
	4-10	.3	.3	.3	.3	.7	.6	.1	.2	.0	.0	2.8	
	11-21	.0	.3	.9	.6	.6	1.2	.3	.1	.0	.0	4.0	
	TOT %	.3	.7	1.4	1.2	1.6	2.1	.6	.3	.0	.1	8.2	
5<10	0-3	.1	.1	.2	.1	.3	.1	.2	.2	.0	.1	1.4	
	4-10	.8	.9	1.5	1.7	2.4	2.6	.6	.8	.0	.0	11.3	
	11-21	.7	.9	2.2	1.6	3.3	3.2	.9	.5	.0	.0	13.4	
	TOT %	1.6	2.1	4.1	3.7	6.4	6.7	2.0	1.6	.0	.1	28.2	
10+	0-3	.4	.5	.4	.5	.7	.6	.2	.2	.0	.7	4.3	
	4-10	1.9	2.8	3.8	5.1	7.8	6.2	1.8	2.0	.0	.0	31.4	
	11-21	.9	1.3	2.4	1.7	6.1	6.2	1.5	.4	.0	.0	21.0	
	TOT %	3.2	5.1	6.9	7.6	15.3	12.3	3.6	3.2	.0	.7	58.9	
TOT OBS													1926
TOT PCT													
1926													
5.2 8.2 13.6 12.9 24.0 23.2 6.7 5.4 .0 .8 100.0													

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 478) AND
OCCURRENCE OF NH < 578 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL ANY HGT	NH < 578 TOTAL OBS
00003	2.0	.4	2.4	8.1	18.3	10.6	3.3	3.3	1.2	.0	49.6	50.4	246
06009	1.0	.7	3.4	13.1	18.6	9.0	2.4	.0	.7	2.8	51.7	48.3	290
12015	1.9	.4	2.7	8.8	20.4	10.4	2.7	.0	.0	.4	47.7	52.3	260
18021	2.4	.0	4.8	11.1	22.2	9.9	2.4	1.6	.0	.8	55.2	44.8	252
TOT	19	4	35	109	208	104	28	12	5	11	535	513	1048
PCT	1.6	.4	3.3	10.4	19.8	9.9	2.7	1.1	.5	1.0	51.0	49.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.8	.8	.8	4.9	25.3	67.3	245
06009	.7	.7	1.7	9.0	26.6	61.2	289
12015	.4	.4	1.2	4.7	36.2	57.2	257
18021	.0	.8	2.4	4.8	33.7	58.2	249
TOT	5	7	16	62	316	634	1040
PCT	.5	.7	1.5	6.0	30.4	61.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH > 478) BY HOUR

HOUR (GMT)	<150 <50YD	<500 <1	<1000 <5	1000+ AND 5+	NH < 578 AND 5+	TOTAL OBS
00003	2.4	6.1	16.3	34.3	49.4	245
06009	2.4	7.3	24.2	30.4	45.3	289
12015	3.5	5.8	19.3	31.5	50.2	257
18021	2.0	8.0	20.9	34.9	44.2	249
TOT	29	71	209	340	491	1040
PCT	2.8	6.8	20.1	32.7	47.2	100.0

JUNE

PERIOD: (PRIMARY) 1936-1970
(OVER-ALL) 1867-1970

AREA 0009 AMAMI O SHIMA
27.9N 129.4E

TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100				
90/94	.0	.0	.0	.0	.0	.1	.5	.0			7	.7
85/89	.0	.0	.0	.0	.0	.2	1.2	1.8			44	4.6
80/84	.0	.0	.0	.0	.1	.6	2.4	15.1			354	36.6
75/79	.0	.0	.0	.0	.3	.7	4.8	10.9			392	40.7
70/74	.0	.0	.0	.0	.1	1.5	3.3	4.4			156	15.2
65/69	.0	.0	.0	.0	.0	.0	.0	.2			9	.9
TOTAL	.0	.0	.0	.0	.5	3.1	12.3	32.4			962	100.0
PCT	.0	.0	.0	.5	3.1	12.3	32.4	51.7				

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP											
N	NE	E	SE	S	SW	W	NW	VAR	CALH		
.0	.0	.1	.0	.3	.3	.0	.0	.0	.0		
.3	.1	.2	.2	1.8	1.6	.4	*	.0	.0		
.9	.6	2.1	4.2	13.0	13.3	1.4	.9	.0	.0		
2.4	3.0	5.3	5.1	9.6	8.9	3.3	2.6	.0	.4		
1.8	2.4	3.3	3.3	1.2	1.0	1.5	1.3	.0	.3		
.2	.2	.2	.3	.0	.0	.0	.0	.0	.0		
5.5	6.4	11.3	13.3	25.9	25.1	6.6	4.8	.0	.9		

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR											TOTAL OBS
HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN			
0003	91	86	85	79	72	67	64	78.5			526
0609	94	89	85	79	72	68	65	78.6			479
1215	87	85	82	78	72	69	64	77.4			566
1821	86	83	82	77	71	68	63	76.7			437
TOT	94	87	84	78	72	68	63	77.8			2008

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR											TOTAL OBS
HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN				
0003	.0	.8	3.1	10.9	35.9	49.2	87				256
0609	.0	.4	3.8	17.2	36.1	42.4	86				238
1215	.0	.4	2.4	13.7	30.1	53.4	88				249
1821	.0	.4	3.6	6.7	26.2	63.1	89				225
TOT	0	5	31	118	312	502	88				968

PERIOD: (PRIMARY) 1936-1970
(OVER-ALL) 1807-1970

JUNE

AREA 0009 AMAHI O SHIMA
27.9N 129.4E

TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG *WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	61	65	69	73	77	81	85	89	92	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.1	2	.0	.1
11/13	.0	.0	.0	.0	.0	.0	.0	.1	.0	1	.0	.1
9/10	.0	.0	.0	.0	.1	.2	.3	.2	.0	15	.1	.8
7/8	.0	.0	.0	.1	.1	.7	.8	.2	.0	33	.0	1.9
6	.0	.0	.0	.0	.5	.7	.3	.1	.0	26	.0	1.5
5	.0	.0	.1	.1	.9	1.8	.3	.0	.0	55	.2	3.0
4	.0	.0	.0	.7	2.4	3.6	.5	.0	.0	127	.1	7.1
3	.0	.0	.0	.2	2.2	1.1	.1	.1	.0	66	.2	3.6
2	.0	.1	.1	2.2	5.3	7.3	.3	.0	.0	269	.3	15.0
1	.0	.0	.1	1.1	3.2	1.9	.2	.0	.0	112	.2	6.1
0	.0	.1	1.0	7.3	9.9	6.0	.1	.0	.0	428	.3	24.0
-1	.0	.0	.1	2.5	2.6	.7	.0	.0	.0	103	.0	5.9
-2	.1	.1	1.5	5.9	4.8	1.3	.0	.0	.0	239	.1	13.5
-3	.0	.0	.2	1.9	1.0	.3	.0	.0	.0	59	.0	3.4
-4	.0	.1	2.0	2.6	1.4	.2	.0	.0	.0	111	.1	6.3
-5	.0	.1	.8	1.5	.5	.1	.0	.0	.0	52	.0	3.0
-6	.0	.1	.9	.2	.0	.0	.0	.0	.0	20	.0	1.1
-7/-8	.0	.0	.5	.6	.1	.0	.0	.0	.0	21	.0	1.2
-9/-10	.0	.2	.2	.1	.0	.0	.0	.0	.0	9	.0	.5
-11/-13	.1	.1	.4	.1	.0	.0	.0	.0	.0	11	.0	.6
TOTAL	2	14	135	475	614	456	52	10	1	1759	26	1733
PCT	.1	.8	7.7	27.0	34.9	25.9	3.0	.6	.1	100.0	1.5	98.5

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N										NE										PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.2	.2	.5	.6	.0	.0	.0	.7	.2	.5	.6	.0	.0	.0	.0
1-2	.0	.0	.8	.0	.0	.0	2.1	.0	.9	.6	.0	.0	.0	1.6	.0	.9	.6	.0	.0	.0	1.6
3-4	.0	1.3	.4	.0	.0	.0	1.2	.0	.0	1.2	.0	.0	.0	2.3	.0	.0	1.4	.0	.0	.0	2.3
5-6	.0	.4	.2	.0	.0	.0	.7	.0	.0	.5	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	.5
7	.0	.0	.4	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.9	.0	.0	.4	.0	.0	.0	.9
8-9	.0	.0	.0	.2	.0	.0	.2	.0	.0	.1	.3	.1	.0	.4	.0	.0	.1	.0	.0	.0	.4
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.8	1.8	.6	.0	.0	5.1	.2	2.3	3.0	.8	.1	.0	6.4	.2	2.3	3.0	.8	.1	.0	6.4

HGT	E										SE										PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	1.6	.1	1.5	.0	.0	.0	.0	1.6	.1	1.5	.0	.0	.0	.0	1.6
1-2	.0	.0	1.9	.0	.0	.0	4.0	.4	2.8	1.2	.0	.0	.0	4.4	.0	2.8	1.2	.0	.0	.0	4.4
3-4	.0	1.0	1.8	.4	.0	.0	3.3	.1	1.4	.8	.0	.0	.0	2.3	.0	1.4	.8	.0	.0	.0	2.3
5-6	.0	.4	1.6	.0	.0	.0	2.1	.0	.4	.6	.2	.0	.0	1.3	.0	.4	.6	.2	.0	.0	1.3
7	.0	.0	1.3	.0	.0	.0	1.3	.0	.0	.3	.1	.0	.0	.7	.0	.0	.3	.1	.0	.0	.7
8-9	.0	.0	.2	.0	.2	.0	.3	.0	.0	.4	.2	.0	.0	.3	.0	.0	.4	.2	.0	.0	.3
10-11	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.3	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.1	6.3	.8	.2	.0	12.9	.6	6.2	3.3	.8	.0	.0	10.9	.6	6.2	3.3	.8	.0	.0	10.9

PERIOD: (OVER-ALL) 1963-1970
JUNE
TABLE 18
AREA 0009, ANAHI O SHIMA
27.0N 129.4E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.4	.2	.0	.0	.0	.9	.0	.7	.0	.0	.0	.0	.7
1-2	.2	5.4	1.8	.0	.0	.0	7.4	.0	3.6	3.7	.0	.0	.0	7.3
3-4	.2	2.8	4.8	.4	.0	.0	8.2	.0	2.8	5.2	.7	.0	.0	8.8
5-6	.0	.4	3.1	.4	.0	.0	3.9	.0	.5	5.0	.6	.0	.0	6.0
7	.0	.2	1.3	1.4	.0	.0	2.9	.0	.2	1.3	.6	.0	.0	2.1
8-9	.0	.0	.3	.4	.0	.0	.7	.0	.0	.6	.7	.0	.0	1.3
10-11	.0	.0	.2	.5	.0	.0	.7	.0	.0	.3	.1	.0	.0	.4
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.2	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	9.3	11.8	3.3	.0	.0	25.0	.0	7.7	16.5	2.9	.0	.0	27.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.7	.6	.0	.0	.0	1.2	.0	1.4	.6	.0	.0	.0	2.0
3-4	.0	.8	1.2	.0	.0	.0	2.1	.0	.9	.3	.0	.0	.0	1.2
5-6	.0	.2	.9	.6	.0	.0	1.7	.0	.2	.3	.0	.0	.0	.6
7	.0	.2	1.1	.2	.0	.0	1.6	.0	.2	.4	.0	.0	.0	.5
8-9	.0	.0	.6	.0	.0	.0	.6	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.1	4.5	.8	.0	.0	7.4	.0	2.8	1.6	.3	.0	.0	4.7

PERIOD: (OVER-ALL) 1963-1970

JUNE

AREA 0009 AMAMI O SHIMA
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TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)							TOT OBS
	0-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	1.8	5.3	.2	.0	.0	.0	7.3	453
1-2	.7	17.9	11.0	.0	.0	.0	29.6	
3-4	.2	11.5	15.9	1.5	.0	.0	29.1	
5-6	.0	2.6	12.1	1.8	.0	.0	16.6	
7	.0	.9	6.4	2.6	.0	.0	9.9	
8-9	.0	.0	2.2	1.8	.2	.0	4.2	
10-11	.0	.0	.4	1.8	.0	.0	2.2	
12	.0	.0	.0	.7	.0	.0	.7	
13-16	.0	.0	.4	.0	.0	.0	.4	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.6	38.2	48.8	10.2	.2	.0	100.0	

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.9	18.7	21.2	7.6	2.5	1.1	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	450	3
6-7	.0	2.0	6.4	8.5	4.6	1.4	.2	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	200	5
8-9	.0	.5	1.2	2.5	2.6	1.0	1.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	76	6
10-11	.0	.1	.2	.7	.7	.5	.7	.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	29	8
12-13	.0	.0	.0	.4	.2	.1	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	9
>13	.0	.0	.0	.0	.2	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	9
INDET	1.8	2.1	2.1	1.9	.2	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	73	3
TOTAL	31	197	262	181	94	35	23	12	4	1	0	0	0	0	0	0	0	0	0	840	4
PCT	3.7	23.5	31.2	21.5	11.2	4.2	2.7	1.4	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JULY

AREA 0009 AMAMI D' SHIMA
27.9N 129.4E

PERIOD: (PRIMARY) 1936-1970
(OVER-ALL) 1870-1970

TABLE 1
PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE				HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN OBS	THOR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS
				FRZG	SNOW	OTHER	PCPN					PCPN	FOG	SMOKE	DUST	
N	.1	.2	.0	.0	.0	.0	.0	.0	.3		.0	.0	.0	.1	.0	2.2
NE	.2	.1	.0	.0	.0	.0	.0	.0	.4		.0	.0	.0	.1	.0	4.5
E	.2	.1	.0	.0	.0	.0	.0	.0	.2		.0	.0	.0	.0	.0	15.5
SE	.2	.2	.0	.0	.0	.0	.0	.0	.3		.0	.0	.0	.0	.0	19.2
S	.3	.2	.0	.0	.0	.0	.0	.0	.7		.0	.0	.0	.0	.0	22.8
SW	1.0	.1	.0	.0	.0	.0	.0	.0	1.2		.5	.0	.0	.1	.1	21.3
W	.3	.2	.0	.0	.0	.0	.0	.0	.4		.1	.0	.0	.1	.0	5.7
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	2.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	1.5
TOT OBS	42	17	12	0	0	0	0	0	.0	66	21	.5	.1	.8	.2	1821
TOT PCT	2.2	.9	.6	.0	.0	.0	.0	.0	3.4		1.1	.3	.4	.4	.1	94.7

1922

TABLE 2
PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE				HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN OBS	THOR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS
				FRZG	SNOW	OTHER	PCPN					PCPN	FOG	SMOKE	DUST	
00003	3.9	1.2	1.4	.0	.0	.0	.0	.0	5.8		.2	.0	.0	.6	.2	93.2
06009	1.9	.9	.0	.0	.0	.0	.0	.0	2.8		.0	.0	.0	.4	.0	96.1
12015	1.5	1.5	.2	.0	.0	.0	.0	.0	3.3		2.5	.0	.0	.4	.0	94.0
18021	1.1	1.4	.9	.0	.0	.0	.0	.0	2.9	73	1.6	.5	.5	.2	.2	94.6
TOT	42	24	12	0	0	0	0	0	3.8		21	5	8	.8	.2	1833
PCT	2.2	1.2	.6	.0	.0	.0	.0	.0	3.8		1.1	.3	.4	.4	.1	94.4

1941

JULY

PERIOD: (PRIMARY) 1936-1970
(OVER-ALL) 1870-1970

AREA 0009 AMAMI O SHIMA
27.9N 129.4E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)											
	0-3	4-10	11-21	22-33	34-47	48+	00	03	06	09				12	15	18	21								
N	.5	1.3	.6	.1	*	.0	2.3	3.0	2.1	3.7	1.9	2.9	2.1	3.4											
NE	.6	2.1	2.1	.3	*	.0	5.6	4.5	6.1	5.3	5.6	4.0	5.2	4.5											
E	1.0	7.7	6.1	1.0	.1	.0	13.3	13.8	17.6	19.2	14.1	18.3	13.9	18.9											
SE	1.3	10.0	7.7	.8	.1	.0	18.2	22.7	16.2	16.8	20.3	25.6	16.4	22.5											
S	1.3	11.8	9.5	1.1	.1	.0	24.3	21.7	22.2	24.5	24.1	26.3	25.1	21.8											
SW	.9	9.2	10.7	1.9	.3	.0	25.9	23.6	27.3	23.1	17.3	17.3	21.8	18.8											
W	.3	2.8	2.9	.2	.0	.0	7.6	7.0	5.0	5.0	6.6	1.8	9.6	6.2											
NW	.3	1.1	.6	.1	.0	.0	1.6	3.6	1.4	1.9	1.6	1.7	2.9	2.2											
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0											
CALM	1.6	939	822	112	11	.0	1.0	.0	280	201	283	271	268	189											
TOT OBS	160	45.9	40.2	5.5	.5	.0	288	264	280	251	283	271	268	189											
TOT PCT	7.8					.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0											

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)									
	0-6	7-15	17-27	28-40				<1+	00	03	06	09	12	15	18	21	
N	1.3	.9	.3	.0	*	2.6	9.2	2.7	2.8	2.3	2.6	2.3	2.9	2.6	2.6	2.6	2.6
NE	1.6	2.6	.9	.1	.0	5.1	10.8	5.1	5.8	5.1	4.9	4.8	4.8	4.9	4.9	4.9	4.9
E	3.9	8.8	2.9	.2	.0	15.9	11.3	13.5	13.2	13.5	10.0	10.2	10.2	10.0	10.0	10.0	10.0
SE	5.5	10.8	3.2	.3	.0	19.8	10.8	20.4	16.4	20.4	16.9	16.2	16.2	16.4	16.9	16.9	16.9
S	5.4	15.1	3.0	.4	.0	23.8	11.0	23.1	23.2	23.1	23.7	23.2	23.2	23.7	23.7	23.7	23.7
SW	3.8	13.3	5.1	.5	.1	22.9	12.7	24.8	25.6	24.8	20.6	20.5	20.5	20.6	20.6	20.6	20.6
W	1.7	3.3	1.1	.0	.0	6.2	11.0	7.3	5.0	7.3	8.2	4.3	4.3	8.2	8.2	8.2	8.2
NW	.9	.9	.2	.0	.0	2.1	8.9	2.6	1.6	2.6	2.6	1.6	1.6	2.6	2.6	2.6	2.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.6	1139	344	32	3	1.6	.0	.5	1.5	.5	.0	2.2	2.2	.0	.0	.0	.0
TOT OBS	526	55.7	16.8	1.6	.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
TOT PCT	25.7																

JULY

PERIOD: (PRIMARY) 1936-1970
(OVER-ALL) 1870-1970AREA 0009 AMAHI O SHIMA
27.9N 129.4E

TABLE 4

HOUR	CALM	PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (OBT)					PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47		
0000	.5	6.3	43.8	41.8	6.5	.9	.0	11.6 100.0
0600	1.5	6.4	43.7	42.6	5.2	.6	.0	11.4 100.0
1200	2.2	5.1	49.1	38.8	4.7	.2	.0	10.7 100.0
1800	2.4	7.2	47.0	37.4	5.5	.4	.0	10.8 100.0
TOT	33	127	939	822	112	11	0	11.1 100.0
PCT	1.6	6.2	45.9	40.2	5.5	.5	.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)						TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8 &	9-10	11-12		
N	.4	.4	.6	.8	.5	.6		5.6
NE	2.3	.9	1.3	.5	.5	3.7		3.7
E	5.5	4.2	3.8	.6	.6	3.6		3.6
SE	7.5	5.4	4.2	.5	.5	3.3		3.3
S	8.1	8.7	7.4	1.4	.4	3.7		3.7
SW	7.8	6.0	8.5	2.6	.6	4.2		4.2
W	1.6	2.0	2.3	1.0	.4	4.5		4.5
NW	.4	.2	.9	.4	.0	5.3		5.3
VAR	.0	.0	.0	.0	.0	.0		.0
CALM	1.3	.4	.2	.1	.1	3.2		3.2
TOT OBS	390	316	326	87	119	318		
TOT PCT	34.9	28.2	29.1	7.8	100.0			

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH > 4/8
AND OCCURRENCE OF NH < 5/8 BY WIND DIRECTION

WIND DIR	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH > 4/8 AND OCCURRENCE OF NH < 5/8 BY WIND DIRECTION												NH < 5/8 TOTAL ANY HGT OBS
	000	150	300	600	1000	2000	3500	5000	6500	8000+	ANY HGT	TOTAL	
N	.0	.0	.0	.1	.3	.2	.2	.0	.0	.0	.1	1.2	
NE	.0	.0	.0	.2	.4	.4	.4	.0	.0	.0	.0	3.9	
E	.0	.0	.0	.6	1.5	.3	.1	.0	.0	.0	.0	11.7	
SE	.0	.0	.1	.2	1.0	.8	.4	.0	.0	.0	.0	15.1	
S	.0	.1	.4	.6	1.4	.9	.0	.1	.0	.0	.1	22.0	
SW	.0	.0	.1	.9	1.9	1.1	.2	.0	.0	.0	.2	20.4	
W	.0	.0	.1	.3	1.1	.4	.2	.0	.0	.0	.0	4.8	
NW	.0	.0	.0	.4	.7	.1	.1	.0	.0	.0	.0	1.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	1.7	
TOT OBS	0	1	7	34	92	48	8	4	2	4	919	1119	
TOT PCT	.0	.1	.6	3.0	8.2	4.3	.7	.4	.2	.4	.4	82.1	100.0

AREA 0009, AHAHI D SHIMA
27.9N 129.4E

JULY

PERIOD: (PRIMARY) 1936-1970
(OVER-ALL) 1870-1970

TABLE 7
CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	OR >10	OR >5	OR >2	OR >1	OR >1/2	OR >1/4	OR >50YD	OR >0
OR >6500	.4	.5	.5	.5	.5	.5	.5	.5
OR >5000	.8	.9	.9	.9	.9	.9	.9	.9
OR >3500	1.2	1.6	1.6	1.6	1.6	1.6	1.6	1.6
OR >2000	4.3	5.8	5.9	5.9	6.0	6.0	6.0	6.0
OR >1000	9.3	13.3	13.9	14.0	14.1	14.2	14.2	14.2
OR >600	11.0	16.1	16.9	17.0	17.1	17.2	17.2	17.2
OR >300	11.2	16.8	17.5	17.7	17.8	17.8	17.8	17.8
OR >150	11.3	16.9	17.6	17.8	17.8	17.9	17.9	17.9
OR >0	11.3	16.9	17.6	17.8	17.8	17.9	17.9	17.9
TOTAL	127	189	197	199	200	201	201	201

TOTAL NUMBER OF OBS: 1121 PCT FREQ NH <5/8: 82.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
6.0	20.3	29.5	16.4	9.6	6.4	5.6	2.1	4.0	.1	1154	

PERIOD: (PRIMARY) 1936-1970
(OVER-ALL) 1870-1970

JULY

AREA 0009 AHAHI O SHIMA
27.9N 129.4E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NH)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT %	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
PCP	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
NO PCP	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
TOT %	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
PCP	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT %	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
PCP	.1	.0	.0	*	.1	.2	.2	.0	.0	.0	.5	
NO PCP	.0	*	.1	.3	.2	.5	.1	.1	.0	.1	1.3	
TOT %	.1	*	.1	.3	.2	.7	.2	.1	.0	.1	1.8	
PCP	.2	.1	.2	.2	.4	.4	.1	.0	.0	.0	1.5	
NO PCP	.6	.9	1.6	2.7	2.9	3.2	1.3	.7	.0	.2	14.0	
TOT %	.7	1.0	1.8	2.9	3.3	3.6	1.3	.7	.0	.2	15.5	
PCP	*	.2	.1	.1	.2	.4	.1	.0	.0	.0	1.1	
NO PCP	1.7	3.7	13.8	16.5	20.1	18.2	4.5	1.4	.0	1.3	81.3	
TOT %	1.8	3.9	13.9	16.6	20.3	18.6	4.6	1.4	.0	1.3	82.4	
TOT OBS	2.6	4.9	15.8	19.8	23.8	23.0	6.2	2.2	.0	1.5	100.0	1920

PERIOD: (PRIMARY) 1936-1970
(OVER-ALL) 1870-1970

JULY

AREA 0000 ANAHI O SHIMA
27.9N 129.4E

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10+	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS		2.5	5.1	15.8	19.9	23.8	22.9	6.2	2.2	.0	1.6	100.0
TOT PCT												1973

PERIOD: (PRIMARY) 1936-1970
(OVER-ALL) 1870-1970

JULY

AREA 0009 AHANI C SHIMA
27.9N 129.4E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	2500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HOUR	TOTAL OBS
00003	.0	.0	.3	1.4	8.6	3.4	.3	.3	.0	.0	14.4	85.6	292
06009	.0	.0	.7	3.0	9.7	4.3	.3	.0	.3	.3	18.7	81.3	300
12015	.0	.0	.7	5.7	7.4	3.2	.4	.4	.4	1.5	19.1	80.9	283
18021	.0	.4	.7	1.9	6.3	6.3	1.9	.7	.0	.0	18.1	81.9	270
TOT	.0	.1	.7	3.4	9.2	4.9	.8	.4	.2	.4	20.1	94.4	1145
PCT	.0	.1	.6	3.0	8.0	4.3	.7	.3	.2	.3	17.6	82.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.3	.0	.3	10.7	88.6	289
06009	.0	.0	.7	2.0	10.0	86.5	296
12015	.7	.0	.0	1.0	19.9	77.5	271
18021	.0	.0	.0	1.1	14.3	34.6	266
TOT	.2	.1	.2	.15	155	947	1122
PCT	.2	.1	.2	1.3	13.0	84.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH) >4/8, BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.3	1.0	2.8	12.1	85.1	289
06009	.0	.7	5.7	13.9	80.4	296
12015	.0	1.5	9.2	12.2	78.6	271
18021	.0	1.1	4.1	15.0	80.0	266
TOT	.1	1.2	6.1	14.9	91.2	1122
PCT	.1	1.1	5.4	13.3	81.3	100.0

JULY

PERIOD: (PRIMARY) 1936-1970
(OVER-ALL) 1870-1970

AREA 0009 ANANI O SHINA
27.9N 129.4E

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	.0	.1	.0	.0	.0	1	.1
90/94	.0	.0	.0	.0	.9	1.0	.4	.1	24	2.4
85/89	.0	.0	.0	.0	1.2	10.9	8.6	1.6	225	22.3
80/84	.0	.0	.0	.0	.9	10.0	41.6	17.7	707	70.1
75/79	.0	.0	.0	.0	.0	.2	1.3	3.5	50	5.0
70/74	.0	.0	.0	.0	.0	.0	.0	.1	1	.1
TOTAL	.0	.0	.0	.0	3.1	22.1	51.9	22.9	1008	100.0
PCT	.0	.0	.0	.0	.3	2.2	5.1	2.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

TEMP F	NE	E	SE	S	SW	W	NW	VAR	CALM
95/99	.0	.0	.0	.0	.1	.0	.0	.0	.0
90/94	.0	.0	.0	.1	1.0	.2	.1	.0	.0
85/89	.3	3.9	4.5	4.6	6.7	.7	.1	.0	.3
80/84	1.1	10.1	13.9	19.2	15.7	4.2	1.0	.0	1.4
75/79	.3	.4	.3	.7	1.8	.8	.5	.0	.0
70/74	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	1.7	5.3	14.6	19.1	24.6	5.9	1.8	.0	1.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	90%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000Z	93	90	88	84	79	76	76	73	82.4	540
0600Z	93	92	90	84	79	76	76	74	84.2	479
1200Z	90	88	85	82	79	75	75	72	82.0	352
1800Z	90	85	84	82	77	74	74	66	81.4	460
TOT	93	90	88	82	79	75	75	66	82.8	2038

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000Z	.0	.0	.0	.5	26.0	49.6	23.0	84
0600Z	.0	.4	.8	8.9	34.4	49.6	10.8	263
1200Z	.0	.0	.0	1.2	13.2	55.9	37.7	259
1800Z	.0	.0	.0	.4	11.5	57.3	30.8	234
TOT	0	1	31	220	526	232	84	1014

PERIOD: (PRIMARY) 1936-1970
(OVER-ALL) 1870-1970

JULY

AREA 0009 ANANI O SHIMA
27.9N 139.4E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69	72	75	77	81	85	89	92	TOT	W FOG	HO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.1
11/13	.0	.0	.0	.0	.1	.0	.0	.0	3	.0	.3
9/10	.0	.0	.0	.0	.1	.1	.1	.1	4	.0	.4
7/8	.0	.0	.0	.0	.1	.1	.4	.1	21	.0	1.1
6	.0	.0	.0	.1	.1	.4	.3	.0	13	.0	1.0
5	.0	.0	.1	.2	.9	1.6	.7	.0	60	.0	3.3
4	.0	.1	.1	3.2	2.7	2.7	.1	.0	113	.0	6.3
3	.0	.1	.1	1.4	1.7	1.7	.1	.0	59	.0	3.2
2	.0	.1	.1	.8	2.3	2.3	.2	.0	300	.1	16.3
1	.0	.3	.3	4.6	2.3	2.3	.1	.0	134	.0	7.3
0	.1	.2	3.1	20.7	2.8	2.8	.0	.0	493	.0	26.0
-1	.0	.1	.8	7.2	1.1	1.1	.0	.0	166	.1	9.1
-2	.0	.1	2.6	9.9	1.7	1.7	.1	.0	243	.1	13.3
-3	.0	.1	1.8	3.7	.1	.1	.0	.0	83	.0	4.5
-4	.0	.4	1.5	3.0	.5	.1	.0	.0	89	.1	4.7
-5	.0	.2	.2	.2	.2	.1	.0	.0	17	.0	.9
-6	.0	.0	.0	.5	.1	.0	.0	.0	17	.0	.4
-7/-8	.0	.0	.0	.1	.1	.1	.0	.0	12	.0	.7
-9/-10	.1	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
-11/-13	.0	.1	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	3	19	200	1242	322	322	42	3	1833	3	1828
PCT	.2	1.0	10.9	67.8	17.6	17.6	2.3	.3	100.0	.3	99.7

PERIOD: (OVER-ALL) 1963-1970
 JULY
 TABLE 18
 AREA 0009, ANAHU O SHINA
 27.9N 129.4E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.3	.0	.0	.0	.0	.5	.3	.7	.0	.0	.0	.0	.7
1-2	.1	.2	.0	.0	.0	.0	.4	.2	.4	.4	.0	.0	.0	1.0
3-4	.0	.1	.3	.0	.0	.0	.3	.0	.9	.8	.0	.0	.0	1.7
5-6	.0	.0	.0	.3	.0	.0	.0	.0	.1	.7	.0	.0	.0	.6
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	.7	.3	.4	.2	.0	1.9	.3	2.0	2.2	.4	.4	.0	5.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.6	.1	.0	.0	.0	.9	.3	1.3	.0	.0	.0	.0	1.7
1-2	.0	3.4	1.4	.2	.0	.0	4.8	.0	5.1	.0	.0	.0	.0	6.9
3-4	.0	2.3	4.1	.2	.0	.0	6.5	.2	1.7	2.3	.0	.0	.0	5.2
5-6	.0	.6	1.2	.7	.0	.0	2.4	.0	.3	2.0	.0	.0	.0	2.9
7	.1	.0	.5	.1	.1	.0	.8	.0	.2	1.2	.1	.0	.0	1.3
8-9	.0	.0	.3	.5	.0	.0	.2	.0	.0	.0	.2	.0	.0	.4
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.3
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	6.3	7.5	1.7	.1	.0	16.5	.7	8.6	9.4	.2	.0	.0	18.9

PERIOD: (OVER-ALL) 1963-1970

JULY

TABLE 16

AREA 0009 ANAHI D SHINA
27.0N 129.4E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.9	.0	.6	.0	.0	2.1	.3	.5	.0	.0	.0	.0	.9
1-2	.2	4.5	3.1	.0	.0	.0	7.8	.3	2.4	3.2	.0	.0	.0	7.0
3-4	.0	3.1	5.2	.1	.0	.0	8.4	.0	2.2	5.6	1.7	.0	.0	3.6
5-6	.0	.9	2.4	.4	.0	.0	3.7	.0	.5	4.4	.1	.0	.0	5.0
7	.0	.2	1.0	.6	.0	.0	1.7	.0	.0	1.3	.5	.0	.0	2.0
8-9	.0	.2	.3	.0	.0	.0	.5	.0	.2	.0	.5	.0	.0	.7
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	*	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	10.7	12.1	1.2	.0	.0	24.3	.7	7.0	14.7	3.0	.0	.0	25.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1	.0	.2	.0	.0	.0	.0	.2
1-2	.0	.8	.8	.0	.0	.0	1.6	.0	.5	.2	.0	.0	.0	.7
3-4	.0	.1	1.4	.1	.0	.0	1.7	.0	.2	.5	.0	.0	.0	.7
5-6	.0	.0	1.1	.1	.0	.0	1.2	.0	.0	.0	.1	.0	.0	.1
7	.0	.0	.1	.0	.0	.0	.1	.0	.0	.2	.2	.0	.0	.2
8-9	.0	.0	.2	.1	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.1	3.6	.4	.0	.0	5.0	.0	.8	.8	.2	.0	.0	1.9

PERIOD: (OVER-ALL) 1963-1970

JULY

AREA 0009 ANAMI O SHIMA
27.9N 129.4E

TABLE 18 (CONT):

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)							TOT DBS
	0-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	3.1	5.6	.2	.0	.0	.0	8.9	
1-2	.8	18.2	10.8	.0	.0	.0	29.9	
3-4	.2	10.5	21.0	2.3	.0	.0	34.0	
5-6	.0	2.3	12.3	1.6	.0	.0	16.3	
7	.2	.3	4.6	1.5	.2	.0	6.7	
8-9	.2	.3	1.0	1.6	.0	.0	3.1	
10-11	.0	.0	.3	.3	.0	.0	.7	
12	.0	.0	.0	.2	.0	.0	.2	
13-16	.0	.2	.0	.0	.2	.0	.3	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.4	37.4	50.2	7.6	.3	.0	100.0	
							609	

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	2.7	16.3	22.2	6.9	1.6	.6	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	455	3
6-7	.1	1.9	8.3	8.5	3.7	1.6	.3	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	220	5
8-9	.0	.8	1.8	2.5	2.1	.9	.9	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	81	6
10-11	.0	.0	.3	.7	.9	.9	.1	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	30	7
12-13	.0	.0	.1	.2	.2	.0	.1	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	8
>13	.0	.0	.0	.0	.1	.0	.2	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	11
INDET	3.5	2.0	2.7	1.2	.2	.6	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	94	3
TOTAL	56	188	317	179	79	40	19	6	8	2	1	0	0	0	0	0	0	0	0	0	895	4
PCT	6.3	21.0	35.4	20.0	8.8	4.5	2.1	.7	.9	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1930-1970
(OVER-ALL) 1072-1970

AREA 0009 ANAHI D SHIMA
27.9N 129.4E

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS	
				FRZG PCPN	SNOW	OTHER FRZN PCPN					FOG	SHRKE	HAZE	BLWG	DUST		NO SIG WEA
N	.2	.1	.1	.0	.0	.0	.0	.3	.1	.1	.1	.1	.1	.0	.0	6.1	
NE	.3	.2	.0	.0	.0	.0	.0	.5	.1	.1	.1	.1	.1	.0	.0	10.1	
E	.6	.5	.0	.0	.0	.0	.0	1.5	.2	.2	.1	.1	.1	.0	.0	17.7	
SE	.2	.3	.2	.0	.0	.0	.0	.7	.1	.2	.1	.2	.2	.0	.0	17.3	
S	.3	.3	.2	.0	.0	.0	.0	.9	.2	.2	.0	.2	.2	.0	.0	12.7	
SW	.5	.3	.2	.0	.0	.0	.0	.6	.1	.2	.0	.2	.2	.0	.0	12.5	
W	.4	.1	.1	.0	.0	.0	.0	.4	.0	.1	.0	.1	.1	.0	.0	8.4	
NW	.3	.1	.1	.0	.0	.0	.0	.4	.0	.0	.0	.0	.1	.0	.0	5.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	
TOT OBS	51	34	9	1	1	0	0	5.0	94	19	9	17	17	1	1	1743	
TOT PCT	2.7	1.8	.5	.1	.1	.0	.0			1.0	.5	.9	.9	.1	.1	92.5	1002

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE				HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN OBS	THUR LTNG	OTHER WEATHER PHENOMENA							TOTAL OBS
				FRZG	PCPN	SNOW	OTHER					FOG	SHRKE	HAZE	BLWG	DUST	NO SIG WEA		
00003	3.1	1.7	.2	.0	.0	.0	.0	.0	5.0		.0	.7	.4	.0	.0	.0	93.9		
06009	3.1	1.5	.4	.0	.0	.0	.0	.0	5.0		.0	.2	1.1	.2	.0	.0	93.4		
12015	1.9	1.9	.8	.0	.0	.0	.0	.0	4.6		1.9	.2	1.0	.0	.0	.0	92.4		
18021	2.9	2.0	.4	.2	.0	.0	.0	.0	5.4		2.0	.9	1.1	.0	.0	.0	90.8		
TOT	51	34	9	1	0	0	0	0	5.0	94	19	9	17	1	1	1	1748	1007	
PCT	2.7	1.8	.5	.1	.0	.0	.0	.0	5.0		1.0	.5	.9	.1	.1	.1	92.6		

PERIOD: (PRIMARY) 1936-1970
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AUGUST

AREA 0009 AMARU U SUMMA
27.9N 129.5E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)				
	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD		00	03	06	09	12
N	1.2	3.0	1.8	.5	.1	.0	6.6	10.0	8.2	8.0	7.9	6.3	5.0	5.1	5.9
NE	.8	5.4	3.0	1.2	.3	.0	10.7	11.8	9.8	13.3	10.2	8.4	12.2	10.5	12.1
E	1.2	8.7	6.7	2.1	.3	.1	19.0	12.3	17.6	18.6	18.1	21.4	12.2	10.5	17.4
SE	1.0	8.8	6.9	.9	.1	*	18.0	11.1	16.0	14.5	13.8	17.8	16.4	20.2	22.4
S	1.0	6.2	5.3	.9	.3	*	13.7	11.9	14.4	14.5	12.8	11.5	12.2	15.1	13.4
SW	1.1	6.4	4.6	1.7	.4	*	14.2	12.6	16.9	12.0	15.7	17.3	11.4	15.7	10.8
W	.7	4.7	2.7	.7	.1	.1	9.0	11.3	10.0	10.3	8.9	11.1	11.2	5.4	7.4
NW	.8	3.0	1.9	.4	.1	.0	6.2	10.5	5.6	6.8	8.9	4.3	7.3	3.8	6.2
VAR	.0	.0	.0	.0	.0	.0	2.6	.0	1.5	.0	.0	.0	.0	.0	.0
CALM	2.6	947	673	167	36	5	2045	11.3	264	250	272	211	238	279	190
TOT OBS	217	947	673	167	36	5	2045	11.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0
TOT PCT	10.6	46.3	32.9	8.2	1.8	.2	100.0								

TABLE 3A

WIND DIR		0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N		2.8	2.8	.7	.3	*	6.6	10.0	8.1	8.1	7.2	5.1	5.1	6.3			
NE		3.5	4.5	2.1	.4	.1	10.7	11.8	11.5	11.5	9.4	11.4	11.4	10.1			
E		5.0	9.6	3.4	.8	.2	19.0	12.3	18.1	18.1	19.6	21.0	21.0	17.0			
SE		4.8	9.9	3.0	.3	*	18.0	11.1	15.3	15.3	15.3	19.7	19.7	21.5			
S		3.6	7.2	2.4	.4	.2	13.7	11.9	14.4	14.4	12.2	13.6	13.6	14.4			
SW		3.3	7.0	3.0	.7	.1	14.2	12.6	16.9	16.9	16.4	13.3	13.3	12.5			
W		3.0	4.2	1.4	.3	.1	9.0	11.3	10.2	10.2	9.9	8.4	8.4	7.6			
NW		2.4	2.5	1.0	.2	*	6.2	10.5	6.2	6.2	6.9	5.6	5.6	6.3			
VAR		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
CALM		2.6	974	347	72	17	2045	11.3	1.8	1.8	2.9	1.7	1.7	4.2			
TOT OBS		635	974	347	72	17	2045	11.3	.514	.514	483	577	577	471			
TOT PCT		31.1	47.6	17.0	3.5	.8	100.0		100.0	100.0	100.0	100.0	100.0	100.0			

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AREA 0009 AMAMI O SHIMA
27.9N 129.4EPERIOD: (PRIMARY) 1936-1970
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)					PCT FREQ	TOTAL OBS
		4-10	11-21	22-33	34-47	48+		
0000	1.8	44.2	33.1	7.6	1.8	.4	11.3	514
0600	2.9	44.9	35.0	8.7	2.3	.2	12.1	483
1200	1.7	49.0	30.2	9.0	2.1	.0	11.2	577
1800	4.0	46.7	34.0	7.2	.8	.4	10.9	471
TOT	53	164	947	673	36	5	11.3	2045
PCT	2.6	8.0	46.3	32.9	8.2	1.8	100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)							TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8-10	11-14	15-18	19-22		
N	2.0	1.7	2.2	1.2	2.2	1.2	4.5		4.5
NE	3.2	2.6	3.9	1.8	6.2	1.8	4.1		4.1
E	4.8	5.3	6.2	1.8	1.5	1.5	4.2		4.2
SE	5.5	5.4	4.5	1.5	1.5	1.5	3.9		3.9
S	3.7	3.7	4.4	1.5	4.2	4.2	4.2		4.2
SW	3.0	2.5	4.5	4.2	2.3	2.3	5.2		5.2
W	2.6	2.6	2.6	2.3	1.1	1.1	4.6		4.6
NW	2.5	1.2	1.9	1.1	1.1	1.1	4.1		4.1
VAR	.0	.0	.0	.0	.0	.0	.0		.0
CALM	2.3	.3	.4	.1	.1	.1	2.3		2.3
TOT OBS	344	293	357	169	169	169	4.3	1163	
TOT PCT	29.6	25.2	30.7	14.5	14.5	14.5	100.0		

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH > 478)
AND OCCURRENCE OF NH < 578 BY WIND DIRECTION

WIND DIR	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH > 478) AND OCCURRENCE OF NH < 578 BY WIND DIRECTION												TOTAL OBS
	000	150	300	600	999	1999	3499	5000	6499	7999	8000+	NH < 578	
N	.0	.1	.0	.0	.4	.8	.3	.2	.0	.0	.0	5.3	
NE	.0	.0	.2	.4	.4	1.4	.5	.2	.0	.0	.0	7.8	
E	.1	.1	.2	.8	.8	2.4	.5	.1	.1	.0	.0	13.9	
SE	.0	.1	.2	.8	.8	1.5	.6	.3	.0	.0	.0	13.6	
S	.0	.3	.2	.9	.8	1.2	.5	.3	.0	.0	.0	9.8	
SW	.3	.3	.8	.8	.8	2.1	.8	.2	.1	.0	.1	9.0	
W	.1	.1	.4	.6	.6	1.1	.8	.2	.1	.0	.0	6.7	
NW	.0	.0	.2	.3	.3	.5	.7	.2	.0	.0	.0	4.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8	
TOT OBS	.6	.7	.24	.60	.60	.131	.56	.16	.2	.0	.2	859	1163
TOT PCT	.5	.6	2.1	5.2	5.2	11.3	4.8	1.4	.2	.0	.2	73.9	100.0

PERIOD: (PRIMARY) 1936-1970
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AREA 0009 AHAHI O SHIMA
27.9N 129.4E

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH > 4/8) AND VSBY (NH)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.1	.2	.2	.2	.2	.2	.2	.2
= OR >5000	.2	.3	.3	.3	.3	.3	.3	.3
= OR >3500	1.5	1.7	1.7	1.7	1.7	1.7	1.7	1.7
= OR >2000	4.7	6.0	6.4	6.6	6.6	6.6	6.6	6.6
= OR >1000	11.1	15.1	17.2	17.5	17.6	17.8	17.8	17.8
= OR >600	13.0	19.2	22.3	22.7	23.0	23.0	23.0	23.0
= OR >300	13.4	20.3	23.9	24.5	24.8	24.8	24.8	24.8
= OR >150	13.5	20.6	24.4	25.1	25.5	25.5	25.5	25.5
= OR >0	13.6	20.9	24.8	25.6	26.0	26.0	26.0	26.0
TOTAL	160	242	288	297	301	301	301	301

TOTAL NUMBER OF OBS: 1159 PCT FREQ NH < 5/8: 74.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
5.4	15.4	25.8	16.6	10.5	7.5	6.5	4.2	7.8	.2	1206	

PERIOD: (PRIMARY) 1936-1970
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AREA 0009 AHAMI D SHIMA
27.9N 129.4E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT %	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
PCP	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.2	
NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT %	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.2	
PCP	.1	.1	.0	.0	.1	.1	.1	.1	.0	.0	.4	
NO PCP	.0	.0	.1	.1	.0	.1	.1	.1	.0	.0	.3	
TOT %	.1	.1	.1	.1	.1	.2	.2	.2	.0	.0	.7	
PCP	.1	.1	.1	.1	.2	.2	.3	.1	.0	.0	1.3	
NO PCP	.1	.2	.3	.5	.4	.6	.2	.3	.0	.0	2.6	
TOT %	.3	.3	.4	.7	.6	.8	.5	.4	.0	.0	3.9	
PCP	.1	.2	.3	.2	.2	.2	.2	.2	.0	.0	1.6	
NO PCP	1.2	1.6	3.0	3.1	1.8	3.4	2.0	1.1	.0	.4	17.6	
TOT %	1.3	1.8	3.3	3.3	2.1	3.6	2.2	1.3	.0	.4	19.2	
PCP	.0	.1	.6	.2	.2	.3	.1	.1	.0	.0	1.4	
NO PCP	5.1	8.5	14.5	14.0	10.5	8.9	6.4	4.3	.0	2.1	74.4	
TOT %	5.1	8.5	15.1	14.2	10.7	9.2	6.5	4.4	.0	2.1	75.9	
TOT OBS												1882
TOT PCT	6.7	10.7	19.1	18.3	13.5	13.8	9.2	6.1	.0	2.5	100.0	

PERIOD: (PRIMARY) 1936-1970
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27.9N 129.4E

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10+	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS		6.7	10.7	19.0	18.1	13.6	13.8	9.1	6.4	.0	2.7	100.0	1952
TOT PCT													

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	700 1999	800 2999	900 4999	1000 5999	1100 6999	1200 7999	1300 8999	1400 9999	TOTAL	NH < 5/8 ANY HOUR	TOTAL OBS
00003	.7	.7	2.1	7.3	9.1	4.5	.7	.3	.0	.0	.0	.0	25.5	74.5	286
06009	1.3	.3	2.6	4.6	10.8	5.2	1.6	.3	.0	.7	27.8	72.5	306	72.5	306
12015	.0	1.0	2.3	4.3	12.8	4.3	1.0	.0	.0	.0	25.6	74.4	305	74.4	305
18021	.0	.3	1.0	4.1	11.1	4.7	2.0	.0	.0	.0	23.3	76.7	296	76.7	296
TOT	6	7	24	60	131	56	16	2	0	2	304	889	1193	889	1193
PCT	.5	.6	2.0	5.0	11.0	4.7	1.3	.2	.0	.2	25.5	74.5	100.0	74.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.4	1.1	3.9	15.7	79.0	281
06009	.0	.3	1.3	4.3	18.7	75.3	299
12015	.0	.0	.3	6.1	21.5	72.0	293
18021	.0	.7	.3	5.2	19.6	74.1	286
TOT	0	4	9	57	219	870	1159
PCT	.0	.3	.8	4.9	18.9	75.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH > 4/8) BY HOUR

HOUR (GMT)	<150 <500D	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	1.1	3.0	12.8	13.9	73.3	281
06009	1.3	4.7	12.0	16.4	71.6	299
12015	.0	2.7	12.3	14.7	73.0	293
18021	.0	2.1	10.1	15.4	74.5	286
TOT	7	30	137	175	847	1159
PCT	.6	3.3	11.8	15.1	73.1	100.0

AUGUST

ARDA 0009 AMAHI O SHIMA
27.9N 129.4EPERIOD: (PRIMARY) 1936-1970
(OVER-ALL) 1872-1970

TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	90-100	90-100		
95/99	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	2	.2
90/94	.0	.0	.0	.0	.0	.9	.2	.0	.0	.0	19	1.9
85/89	.0	.0	.0	.0	1.6	13.4	9.2	1.5	.0	.0	252	25.6
80/84	.0	.0	.0	.0	.8	13.5	40.0	15.1	.0	.0	709	69.4
75/79	.0	.0	.0	.0	.0	.3	1.1	1.6	.0	.0	30	2.9
TOTAL	.0	.0	.0	.1	.3	28.7	51.6	18.5	.0	.0	1022	100.0
PCT	.0	.0	.0	.1	3.2	28.1	50.5	18.1	.0	.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP									
N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.1	.0	.0	.1	.0	.0	.0	.0
.2	.4	.3	.2	.1	.2	.0	.4	.0	.0
2.5	2.2	4.4	4.2	3.5	2.7	2.8	2.3	.0	1.1
4.6	7.7	12.8	11.6	8.3	11.2	6.9	4.1	.0	2.3
.1	.2	.3	.4	.8	.7	.2	.4	.0	.1
7.4	10.5	18.0	16.3	12.7	14.9	9.9	6.8	.0	3.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR									
HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	91	90	88	84	79	77	75	83.7	503
06009	97	93	90	84	79	75	72	84.5	474
12015	94	89	86	82	79	75	72	82.4	570
18021	89	86	84	82	77	75	72	81.5	471
TOT	97	90	88	83	79	75	72	82.9	2018

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR									
HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN
00003	.0	.0	.0	.0	1.6	33.1	40.2	17.1	.02
06009	.0	.4	8.1	29.4	25.2	21.1	25.2	11.8	.00
12015	.0	.0	2.6	21.1	55.6	20.7	20.7	20.7	.84
18021	.0	.0	.8	20.0	56.9	22.3	22.3	22.3	.85
TOT	0	1	33	288	516	185	185	185	1023

PERIOD: (PRIMARY) 1936-1970
(OVER-ALL) 1872-1970

AUGUST

AREA 0009 AHANI O SHIMA
27.9N 129.4E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69	72	73	76	77	80	81	84	85	88	89	92	TOT	H FOG	NO FOG
11/13	.0	.0	.0	.0	.0	.0	.1	.1	.1	.1	.1	.1	5	.0	3
9/10	.0	.0	.0	.0	.0	.0	.3	.3	.3	.6	.6	.6	13	.0	7
7/8	.0	.0	.0	.0	.0	.0	.3	.3	.2	.3	.3	.3	27	.0	1.5
6	.0	.0	.0	.0	.0	.0	.6	.6	1.6	.6	.3	.3	46	.0	.9
5	.0	.0	.0	.0	.1	.1	2.8	2.8	2.5	1.3	.4	.4	103	.1	2.6
4	.0	.0	.0	.0	.0	.0	1.1	1.1	1.3	.3	.3	.3	50	.0	2.8
3	.0	.0	.1	.3	.3	.3	9.5	4.6	4.6	.1	.0	.0	259	.0	14.5
2	.0	.0	.0	.3	.2	.3	3.7	2.4	.1	.0	.0	.0	112	.0	6.3
1	.0	.0	.0	.0	2.2	20.4	3.0	.2	.1	.0	.0	.0	466	.2	25.9
0	.0	.0	.0	.0	.3	6.3	1.6	.0	.1	.0	.0	.0	146	.0	8.2
-1	.1	.0	.0	.4	2.5	10.7	.0	.0	.0	.0	.0	.0	258	.1	14.4
-2	.0	.0	.0	.0	.7	3.9	.3	.0	.0	.0	.0	.0	87	.0	4.9
-3	.0	.0	.0	.0	1.0	4.5	.0	.0	.0	.0	.0	.0	111	.1	6.2
-4	.1	.6	.0	.1	1.0	1.4	.1	.0	.1	.0	.0	.0	46	.0	2.0
-5	.0	.0	.4	.7	.7	.0	.0	.0	.0	.0	.0	.0	21	.0	1.2
-6	.0	.1	.2	.3	.3	.1	.0	.0	.0	.0	.0	.0	15	.0	.8
-7/-8	.1	.2	.2	.3	.3	.1	.0	.0	.0	.0	.0	.0	4	.0	.2
-9/-10	.0	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	1785	.7	1776
TOTAL	3	30	30	1197	342	2.5	6	1785	100.0	.4	99.6				
PCT	.2	1.7	1.7	9.1	67.0	19.2	.3	100.0	.4	99.6					

PERIOD: (OVER-ALL) 1963-1970 AUGUST ARRA 0009 ANAHI O SHIMA
 TABLE 18 27.9N 129.4E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.1	.0	.0	.0	.0	1.1	.5	1.4	.0	.0	.0	.0	1.9
1-2	.2	1.0	1.0	.0	.0	.0	2.2	.0	2.2	.0	.0	.0	.0	3.0
3-4	.3	.5	.5	.0	.0	.0	1.2	.0	.5	.7	.4	.0	.0	1.5
5-6	.0	.2	.5	.0	.0	.0	.7	.0	.1	1.1	.0	.0	.0	1.2
7	.0	.0	.5	.4	.2	.0	.9	.0	.2	.7	.9	.0	.0	1.7
8-9	.0	.0	.2	.1	.0	.0	.3	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.1	.0	.3	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.5	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	2.8	2.4	.9	.3	.0	6.8	.5	4.4	3.1	1.8	.7	.0	10.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6	.5	.3	.6	.0	.0	.0	1.0
1-2	.0	3.5	1.8	.0	.0	.0	5.4	.0	3.5	1.6	.0	.0	.0	5.1
3-4	.2	1.5	3.3	.1	.0	.0	5.1	.0	1.9	2.0	.2	.0	.0	4.6
5-6	.0	.5	1.8	.6	.0	.0	2.9	.0	.3	1.5	.5	.0	.0	2.3
7	.0	.2	.6	1.4	.2	.0	2.4	.0	.7	.5	.2	.0	.0	1.8
8-9	.0	.0	.0	.8	.2	.0	.9	.0	.0	.7	.4	.0	.0	1.1
10-11	.0	.0	.0	.0	.3	.2	.5	.0	.0	.3	.2	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	6.2	7.6	2.9	.7	.2	17.7	.5	6.7	7.9	1.4	.0	.0	16.4

PERIOD: (OVER-ALL) 1963-1970 AUGUST AREA 0009, AMAHI U SHINA
TABLE 18 27.0N 129.4E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.5	.0	.0	.0	.0	.6	.3	1.3	.0	.0	.0	.0	1.7
1-2	.3	2.4	.6	.0	.0	.0	3.3	.3	1.4	1.6	.0	.0	.0	3.2
3-4	.0	2.0	2.6	.0	.0	.0	4.6	.0	1.4	1.8	.0	.0	.0	3.2
5-6	.0	.5	.9	.2	.0	.0	1.6	.0	.2	1.1	1.0	.0	.0	2.3
7	.0	.1	.5	.3	.0	.0	.9	.2	.0	.5	.7	.2	.0	1.3
8-9	.0	.0	.5	.0	.0	.0	.5	.0	.0	.2	.5	.2	.0	.9
10-11	.0	.0	.2	.0	.0	.0	.2	.0	.0	.2	.7	.2	.0	1.2
12	.0	.0	.2	.0	.0	.0	.2	.0	.0	.2	.2	.2	.0	.4
13-16	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	5.4	5.4	.5	.2	.0	12.0	.6	4.2	5.5	3.2	.9	.0	14.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.7	.1	.0	.0	.0	2.1	.7	1.1	.2	.0	.0	.0	1.9
1-2	.0	1.3	.9	.0	.0	.0	2.3	.0	2.1	1.4	.0	.0	.0	3.5
3-4	.0	1.0	1.4	.0	.0	.0	2.5	.0	.2	1.2	.0	.0	.0	1.4
5-6	.0	.0	1.9	.2	.0	.0	2.0	.0	.2	.4	.2	.0	.0	1.7
7	.0	.1	.7	.3	.0	.0	1.5	.0	.0	.0	.4	.0	.0	.5
8-9	.0	.0	.5	.0	.0	.0	.8	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.2	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	4.1	5.6	1.4	.1	.0	11.6	.7	3.7	3.3	.6	.1	.0	8.3

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DOCUMENT**

SEPTEMBER

PERIOD: (PRIMARY) 1937-1970
(OVER-ALL) 1857-1970

AREA 0009 ANAHI OAHU
27.8N 159.3E

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT OBS	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				FRZG PCPN	SNOW PCPN	OTHER FRZN PCPN					FOG	SHOKE	DUST	BLWG	BLWG	
N	.3	.1	.1	.0	.0	.0	.0	.5		.1	.0	.2	.1	.0	.0	12.1
NE	.9	.3	.2	.0	.0	.0	.0	1.1		.1	.0	.1	.1	.0	.0	16.3
E	.6	.3	.1	.0	.0	.0	.0	1.1		.1	.0	.1	.1	.0	.0	20.8
SE	.3	.5	.1	.0	.0	.0	.0	.9		.2	.0	.0	.0	.0	.0	15.1
S	.5	.4	.1	.0	.0	.0	.0	.7		.1	.0	.0	.0	.0	.0	8.0
SW	.4	.2	.2	.0	.0	.0	.0	.4		.1	.0	.0	.0	.0	.0	3.8
W	.2	.2	.1	.0	.0	.0	.0	.5		.1	.0	.0	.0	.0	.0	5.4
NW	.3	*	.1	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	6.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	1.7
CALM	.1	.0	.0	.0	.0	.0	.0	.1		.1	.0	.1	.1	.0	.0	1.7
TOT OBS	68	36	20	0	0	0	0	6.0	115	13	3	14	3	0	0	1773
TOT PCT	3.5	1.9	1.0	.0	.0	.0	.0			.7	.2	.7	.2	.0	.0	92.3

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT OBS	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				FRZG PCPN	SNOW PCPN	OTHER FRZN PCPN					FOG	SHOKE	DUST	BLWG	BLWG	
0003	4.3	2.0	.9	.0	.0	.0	.0	6.5		.2	.4	.7	.2	.0	.0	92.2
0609	3.1	1.6	.8	.0	.0	.0	.0	5.3		.0	.0	1.4	.0	.0	.0	92.3
1215	2.9	1.2	.8	.0	.0	.0	.0	4.3		1.8	.2	.6	.4	.0	.0	92.7
1821	3.9	2.7	1.7	.0	.0	.0	.0	8.1	115	.7	.0	.0	.0	.0	.0	91.1
TOT	68	36	20	0	0	0	0	6.0		13	3	14	3	0	0	1781
PCT	3.5	1.9	1.0	.0	.0	.0	.0			.7	.2	.7	.2	.0	.0	92.4

SEPTEMBER

PERIOD: (PRIMARY) 1937-1970
(OVER-ALL) 1837-1970

AREA 0009 AMAMI O SHINA
27.8N 129.3E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)											
	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD		00	03	06	09	12	15	18	21				
N	1.3	5.6	5.0	1.3	.1	.0		13.4	11.8		12.2	13.2	15.6	16.1	13.5	14.4	9.5	13.0				
NE	1.1	8.0	6.3	1.9	.5	*		17.8	12.4		15.9	16.4	15.6	18.2	22.7	17.5	15.3	21.5				
E	1.0	10.9	8.2	1.5	.2	.1		21.8	11.6		22.9	19.5	23.9	21.5	19.3	23.3	21.9	22.7				
SE	.8	8.2	6.0	1.1	*	*		16.3	11.1		16.1	18.4	18.4	17.4	15.5	14.0	16.5	12.4				
S	1.1	5.3	2.6	.7	.1	.0		9.8	10.2		9.6	8.7	10.8	8.6	10.2	12.2	9.6	7.8				
SW	.5	3.3	2.6	.2	*	.0		6.5	10.5		7.2	6.6	6.9	3.3	6.0	5.7	8.6	8.0				
W	.5	2.7	1.8	.5	.1	.0		5.7	11.7		6.7	6.4	4.4	6.3	5.4	4.5	6.0	6.6				
NW	.5	3.2	2.0	.7	.3	*		6.8	13.3		5.1	9.4	5.7	7.7	5.1	6.8	8.7	6.4				
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0				
CALM	1.9	979	718	164	27	3	2076	1.9	.0		2.3	1.4	.7	.9	2.3	1.6	4.0	1.6				
TOT OBS	185	47.2	34.6	7.9	1.3	.1		100.0	11.4		298	286	284	220	298	254	251	185				
TOT PCT	8.9										100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)										41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)									
	0-6	7-16	17-27	28-40											00	03	06	09	12	15	18	21		
N	3.5	6.7	2.7	.4				.0					13.4	11.8	12.7	15.8	13.9	11.0						
NE	4.7	8.4	3.9	.8				.1					17.8	12.4	16.1	16.7	20.3	17.9						
E	5.3	12.5	3.5	.5				.1					21.8	11.6	21.2	22.9	21.2	22.2						
SE	4.8	8.5	2.5	.3				*					16.3	11.1	18.2	16.8	14.8	14.8						
S	3.7	4.3	1.5	.3				*					9.8	10.2	9.2	9.9	11.1	8.8						
SW	1.7	3.6	1.1	.1				.0					6.5	10.5	6.9	5.3	5.8	8.3						
W	1.8	2.8	.7	.4				.1					5.7	11.7	6.5	5.2	5.0	6.3						
NW	1.7	3.2	1.2	.5				.3					6.8	13.3	7.2	6.6	5.9	7.7						
VAR	.0	.0	.0	.0				.0					.0	.0	.0	.0	.0	.0						
CALM	1.9							.0					1.9	.0	1.9	.8	2.0	3.0						
TOT OBS	601	1040	355	69				11	2076				584	552	584	504	552	436						
TOT PCT	28.9	50.1	17.1	3.3				.5					100.0	100.0	100.0	100.0	100.0	100.0						

SEPTEMBER

PERIOD: (PRIMARY) 1937-1970
(OVER-ALL) 1857-1970

AREA 0009 KAHAMI O. SHIMA
27.8N 129.3E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
0003	1.9	7.4	41.6	39.4	8.4	1.2	.2	11.8	100.0	584
0609	.8	6.3	50.6	33.9	6.7	1.6	.0	11.2	100.0	504
1215	2.0	7.8	50.7	31.2	7.1	1.3	.0	10.8	100.0	552
1821	3.0	6.4	46.1	33.3	9.6	1.1	.5	11.8	100.0	436
TOT	39	146	979	718	164	27	3	11.4		2076
PCT	1.9	7.0	47.2	34.6	7.9	1.3	.1		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 &	OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	4.9	2.6	3.6	1.4			3.8
NE	5.1	4.4	5.1	3.1			4.4
E	8.1	5.9	6.2	2.6			3.8
SE	3.9	5.0	4.4	1.6			4.0
S	2.7	3.1	3.5	.8			3.8
SW	2.6	1.8	1.6	1.0			4.5
W	1.7	1.6	1.7	1.2			3.9
NW	1.7	1.9	1.9	.3			.0
VAR	.0	.0	.0	.0			3.0
CALM	1.3	.8	.4	.3			4.0
TOT OBS	342	288	302	131		1063	
TOT PCT	32.2	27.1	28.4	12.3		100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH, >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.0	.1	.1	.3	1.9	.7	.2	.1	.0	.1	.1	9.0
NE	.0	*	.2	.7	3.6	1.4	.3	.1	.0	.0	.0	11.5
E	.1	.1	.4	1.5	2.4	1.1	.1	.2	.1	.0	.0	17.0
SE	.1	.0	.0	1.0	1.2	1.7	.1	.0	.0	.1	.1	11.6
S	.2	.0	.0	.2	.8	1.2	.1	.1	.0	.0	.0	7.6
SW	.0	.0	.0	.4	.7	.4	.0	.0	.0	.0	.0	5.5
W	.0	.0	.0	.4	1.3	.6	.1	.1	.0	.0	.0	3.9
NW	.0	.0	.0	.4	.4	.2	*	.0	.0	.0	.0	4.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	2.5
TOT OBS	4	2	7	52	131	67	10	7	1	2	780	1063
TOT PCT	.4	.2	.7	4.9	12.3	6.3	.9	.7	.1	.2	73.4	100.0

AREA 0009 ANANI D SHIMA
27.6N 189.3E

SEPTEMBER

PERIOD: (PRIMARY) 1937-1970
(OVER-ALL) 1957-1970

TABLE 7
CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/0) AND VSBY (NH)

CEILING (FEET)	" OR >10	" OR >5	" OR >2	VSBY (NH) " OR >1	" OR >1/2	" OR >1/4	" OR >500	" OR >0
" OR >6500	.3	.4	.4	.4	.4	.4	.4	.4
" OR >5000	.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0
" OR >3500	1.5	2.1	2.1	2.1	2.1	2.1	2.1	2.1
" OR >2000	6.3	8.4	8.5	8.5	8.5	8.5	8.5	8.5
" OR >1000	13.4	19.3	20.6	20.6	20.6	20.6	20.6	20.6
" OR >600	15.3	23.5	25.3	25.3	25.3	25.3	25.3	25.3
" OR >300	15.5	24.0	26.0	26.0	26.2	26.2	26.2	26.2
" OR >150	15.6	24.2	26.2	26.2	26.3	26.3	26.3	26.3
" OR >0	15.7	24.4	26.4	26.3	26.7	26.7	26.7	26.7
TOTAL	167	259	281	282	284	284	284	284

TOTAL NUMBER OF OBS: 1063 PCY FREQ NH <5/01 73.3

TABLE 7A
PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	GDSCD	TOTAL OBS
6.6	15.7	23.3	16.3	9.8	6.9	7.2	4.2	7.6	.4	1132	

PERIOD: (PRIMARY) 1937-1970
(OVER-ALL) 1857-1970

SEPTEMBER

AREA 0009 AMAHI D-SHIMA
27.8N 129.3E

TABLE 8

PERCENT: FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NH)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	FCT	TOTAL OBS
PCP	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.3	
ND PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
TOT %	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.3	
PCP	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.2	
ND PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
TOT %	.1	.1	.0	.0	.0	.1	.0	.0	.0	.0	.2	
PCP	.0	.0	.1	.1	*	.0	.0	.1	.0	.0	.3	
ND PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT %	*	.0	.1	.1	*	.0	.0	.1	.0	.0	.3	
PCP	.1	.4	.3	*	.2	.1	*	*	.0	.0	1.3	
ND PCP	*	.3	.3	.3	.1	.1	.1	.1	.0	.0	1.2	
TOT %	.1	.8	.6	.3	.3	.2	.1	.1	.0	.0	2.5	
PCP	.2	.3	.3	.2	.3	.1	.2	.2	.0	.0	1.8	
ND PCP	1.5	2.6	2.5	2.5	1.8	1.0	1.4	1.1	.0	.3	14.7	
TOT %	1.7	2.9	2.8	2.7	2.1	1.1	1.6	1.3	.0	.3	16.5	
PCP	.1	.4	.4	.5	.3	.3	.1	.2	.0	.1	2.3	
ND PCP	10.9	13.5	18.3	12.7	7.1	4.8	4.1	5.1	.0	1.6	78.0	
TOT %	10.9	13.9	18.6	13.2	7.5	5.1	4.2	5.3	.0	1.6	80.3	
TOT OBS	12.9	17.7	22.1	16.4	9.9	6.6	5.9	6.7	.0	1.9	100.0	1917

PERIOD: (PRIMARY) 1937-1970
(OVER-ALL) 1857-1970

SEPTEMBER

AREA 0009 AMAMI O. SHIMA
27.8N 129.3E

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.2	.2
	11-21	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	.1
	22+	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	TOT %	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.4	.4
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.1	.0	.0	.1	.1	.0	.0	.0	.0	.0	.2	.2
	11-21	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	22+	.0	.1	.0	.0	.1	.1	.0	.0	.0	.0	.2	.2
	TOT %	.2	.1	.0	.1	.1	.1	.0	.0	.0	.0	.4	.4
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.1	.1	.1	.1	.1	.0	.0	.1	.0	.0	.5	.5
	11-21	.0	.0	.1	.1	.0	.1	.0	.1	.0	.0	.4	.4
	22+	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2
	TOT %	.2	.1	.3	.1	.1	.1	.0	.2	.0	.0	1.1	1.1
2<5	0-3	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.1	.1
	4-10	.1	.1	.2	.2	.2	.1	.1	.1	.0	.0	1.1	1.1
	11-21	.1	.3	.2	.0	.1	.1	.1	.1	.0	.0	.9	.9
	22+	.0	.4	.3	.1	.1	.0	.0	.0	.0	.0	1.0	1.0
	TOT %	.2	.9	.7	.3	.4	.3	.2	.2	.0	.0	3.1	3.1
5<10	0-3	.1	.0	.2	.1	.2	.1	.1	.1	.0	.3	1.2	1.2
	4-10	.4	.9	.9	.9	.9	.4	.6	.3	.0	.0	5.3	5.3
	11-21	1.0	1.4	1.2	1.0	.6	.5	.4	.3	.0	.0	6.3	6.3
	22+	.1	.5	.4	.0	.3	.1	.5	.6	.0	.0	3.3	3.3
	TOT %	1.7	2.8	2.7	2.6	2.0	1.1	1.5	1.3	.0	.3	16.0	16.0
10+	0-3	1.0	1.0	.8	.8	1.0	.3	.5	.4	.0	1.7	7.4	7.4
	4-10	5.0	7.0	9.9	7.0	4.2	2.8	2.1	2.7	.0	.0	40.7	40.7
	11-21	3.8	4.4	6.6	4.6	1.7	2.0	1.3	1.6	.0	.0	26.1	26.1
	22+	1.1	1.3	.9	.4	.3	.0	.2	.5	.0	.0	4.8	4.8
	TOT %	10.9	13.8	18.1	12.8	7.3	5.1	4.1	5.2	.0	1.7	79.0	79.0
TOT OBS													1988
TOT PCT		13.2	17.7	21.9	16.0	9.8	6.6	5.8	6.9	.0	2.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1937-1970
(OVER-ALL) 1857-1970

AREA 0009 AHAMI O SHIMA
27.8N 129.3E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS.
00003	.3	.0	.0	4.2	14.0	6.5	.6	.3	.0	.0	26.0	74.0	308
06009	.3	.0	.0	5.7	10.7	6.7	1.3	.7	.7	.7	26.8	73.2	298
12015	.0	.0	.4	3.6	8.0	5.2	1.6	.0	.0	.0	18.7	81.3	251
18021	.8	.8	2.3	5.3	13.6	5.7	.4	1.5	.0	.0	30.3	69.7	264
TOT	4	2	7	53	131	68	11	7	2	2	287	834	1121
PCT	.4	.2	.6	4.7	11.7	6.1	1.0	.6	.2	.2	25.6	74.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	< 1/2	1/2 < 1	1 < 2	2 < 5	5 < 10	10+	TOTAL OBS
00003	.0	.3	.3	2.4	13.5	83.4	289
06009	.4	.0	.0	2.1	12.4	85.2	283
12015	.0	.0	.0	.8	15.0	84.2	240
18021	.0	.4	.0	4.0	21.3	74.3	253
TOT	1	2	1	25	164	872	1065
PCT	.1	.2	.1	2.3	15.4	81.9	100.0

TABLE 12

CUMULATIVE PCT FREQ. OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH > 4/8), BY HOUR

HOUR (GMT)	< 150 < 50YD	< 600 < 1	< 1000 < 5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	.3	.7	7.3	20.8	72.0	289
06009	.7	.7	7.0	20.8	71.4	283
12015	.4	.8	4.6	15.4	80.0	240
18021	.8	4.3	11.5	19.4	69.2	253
TOT	6	17	83	205	777	1065
PCT	.6	1.6	7.8	19.2	73.0	100.0

SEPTEMBER

AREA 0009 ANAMI D SHIMA
27.8N 129.3E

PERIOD: (PRIMARY) 1937-1970
(OVER-ALL) 1857-1970

TABLE 13

		PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL OBS	PCT FREQ
TEMP F		0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100				
90/94	.0	.0	.0	.1	.6	.9	.6	.1	.0			26	2.3
85/89	.0	.0	.0	.1	.2	2.7	8.0	3.9	.6			174	15.4
80/84	.0	.0	.0	.3	.8	5.5	20.2	32.6	9.6			778	68.8
75/79	.0	.0	.0	.0	1.5	2.3	2.4	3.1	3.1			141	12.5
70/74	.0	.0	.0	.0	.0	.1	.1	.1	.4			11	1.0
TOTAL	.0	.0	.0	.5	3.5	12.9	32.3	45.3	15.5			1130	100.0
PCT	.0	.0	.4	3.1	11.4	31.2	40.1	13.7					

TABLE 14

		PERCENT FREQUENCY OF WIND DIRECTION BY TEMP										TOTAL OBS	PCT FREQ
TEMP F		0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100				
90/94	.1	.5	.5	.6	.6	.6	.1	.0	.0			26	2.3
85/89	1.2	1.4	3.3	4.5	1.9	1.0	1.3	.6	.0			174	15.4
80/84	7.1	11.9	17.3	12.8	6.3	4.8	3.8	3.0	.0			778	68.8
75/79	3.8	3.5	1.8	.6	.5	.4	.3	1.3	.0			141	12.5
70/74	.4	.3	.1	.0	.0	.0	.0	.2	.0			11	1.0
TOTAL	12.6	17.6	23.0	18.4	9.3	6.3	5.5	5.2	.0			1130	100.0
PCT		1.5	2.6	2.6	1.1	.7	.6	.6	.0				

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR											
HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS		
0000Z	94	91	88	82	77	75	70	82.5	574		
0600Z	94	91	88	82	77	73	72	82.9	502		
1200Z	91	87	84	81	75	73	72	80.9	548		
1800Z	88	85	84	81	75	72	70	80.3	432		
TOT	94	90	87	82	77	73	70	81.7	2056		

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR											
HR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS	
0000Z	.0	3.9	9.0	37.0	38.5	11.6	79	335			
0600Z	.0	6.0	18.8	35.2	33.6	6.4	76	298			
1200Z	.0	2.3	8.9	24.8	41.7	18.2	81	258			
1800Z	.0	1.2	8.6	25.0	44.7	20.5	82	244			
TOT	0	40	130	354	456	155	79	1135			

PERIOD: (PRIMARY) 1937-1970
(OVER-ALL) 1857-1970

SEPTEMBER

AREA 0009 ANAMI O SHIMA
27.8N 129.3E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69	73	77	81	85	89	92	TOT	N PDO	MO FDD
11/13	.0	.0	.1	.0	.0	.2	.1	5	.0	.3
9/10	.0	.0	.1	.0	.1	.3	.1	9	.0	.5
7/8	.0	.0	.1	.0	.1	.5	.1	14	.0	.8
6	.0	.0	.1	.0	.4	.2	.0	12	.0	.7
5	.0	.0	.1	.2	1.0	.4	.0	30	.0	1.7
4	.0	.0	.3	1.8	1.9	.3	.0	79	.1	4.3
3	.0	.0	.1	.6	1.4	.0	.0	38	.0	2.1
2	.0	.0	.6	9.3	2.3	.2	.0	222	.0	12.4
1	.0	.4	3.7	1.8	.1	.1	.0	106	.0	5.9
0	.1	.6	3.5	17.5	1.5	.1	.0	417	.1	23.2
-1	.0	1.1	1.4	8.5	1.3	.0	.0	202	.0	11.3
-2	.1	1.1	5.8	9.8	.3	.0	.0	307	.1	17.0
-3	.0	.3	2.2	4.3	.1	.0	.0	123	.0	6.9
-4	.3	.6	3.8	2.5	.1	.0	.0	131	.0	7.3
-5	.1	.6	1.6	.9	.0	.0	.0	58	.0	3.2
-6	.0	.1	.7	.0	.0	.0	.0	14	.0	.8
-7/-8	.0	.3	.6	.3	.0	.0	.0	22	.0	1.2
-9/-10	.1	.2	.0	.1	.0	.0	.0	6	.0	.3
TOTAL	11	67	385	1068	221	40	3	1795	.3	1792
PCT	.6	3.7	21.4	59.5	12.3	2.2	.2	100.0	.2	99.8

PERIOD: (OVER-ALL) 1963-1970

SEPTEMBER
TABLE 18

AREA 0009 ANAMI O SHINA
27.8N 129.3E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.1	.0	.0	.0	.0	1.6	.5	1.0	.0	.0	.0	.0	1.5
1-2	.0	2.7	1.0	.0	.0	.0	3.7	.2	2.3	.8	.0	.0	.0	3.3
3-4	.0	1.1	2.0	.0	.0	.0	3.2	.0	2.3	2.7	.7	.0	.0	5.7
5-6	.2	.6	2.1	.8	.0	.0	3.6	.0	.7	1.8	1.2	.0	.0	3.7
7	.0	.0	1.2	.3	.0	.0	1.5	.0	.0	1.4	.8	.2	.0	2.4
8-9	.0	.0	.1	.3	.0	.0	.5	.0	.2	.8	.2	.4	.0	1.2
10-11	.0	.0	.0	.4	.0	.0	.4	.0	.0	.2	.5	.4	.0	1.1
12	.0	.0	.0	.1	.2	.0	.3	.0	.0	.0	.2	.0	.0	.5
13-16	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.4
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	5.5	6.4	2.2	.2	.0	15.0	.7	6.4	7.7	4.2	1.1	.0	20.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.4	.0	.0	.0	.0	.8	.6	.2	.0	.0	.0	.0	.8
1-2	.1	5.3	1.0	.0	.0	.0	6.4	.0	3.0	2.0	.0	.0	.0	5.0
3-4	.1	3.5	3.8	.7	.0	.0	9.2	.2	1.0	1.9	.5	.0	.0	3.6
5-6	.0	.2	2.4	.5	.0	.0	3.0	.0	.0	1.9	.2	.0	.0	2.1
7	.0	.3	2.2	.8	.0	.0	3.4	.0	.0	1.1	.5	.0	.0	1.6
8-9	.0	.0	.7	.2	.4	.0	1.2	.0	.0	.4	.2	.0	.0	.6
10-11	.0	.0	.0	.5	.2	.0	.6	.0	.0	.0	.5	.0	.0	.5
12	.0	.0	.2	.4	.0	.0	.2	.0	.0	.0	.0	.0	.0	.4
13-16	.0	.0	.0	.0	.0	.0	.4	.0	.0	.2	.2	.0	.0	.0
17-19	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	9.7	10.2	3.0	.7	.0	24.3	.8	4.4	7.4	2.0	.0	.0	14.7

PERIOD: (OVER-ALL) 1963-1970

SEPTEMBER
TABLE 18

AREA 0009 ANAMI O SHIMA
27.8N 129.3E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (MT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.0	.0	.0	.0	.0	1.4	.1	.5	.0	.0	.0	.0	.5
1-2	.0	1.1	.1	.0	.0	.0	1.2	.0	.7	.6	.0	.0	.0	1.3
3-4	.2	.3	.8	.1	.0	.0	1.4	.0	1.3	.3	.0	.0	.0	1.6
5-6	.0	.1	.2	.8	.0	.0	1.1	.0	*	.4	*	.0	.0	.5
7	.0	.0	.3	.3	.0	.0	.6	.0	.2	.1	.4	.0	.0	.2
8-9	.0	.0	.0	.1	.0	.0	.1	.0	.0	.4	.0	.0	.0	.4
10-11	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	2.5	1.5	1.5	.0	.0	6.2	.1	2.7	1.7	.4	*	.0	5.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.8	.0	.0	.0	.0	1.3	.0	.9	.0	.0	.0	.0	.9
1-2	.1	1.5	.3	.0	.0	.0	2.0	*	1.1	.6	.0	.0	.0	1.8
3-4	.0	.5	1.0	.0	.0	.0	1.5	.0	.4	.5	.0	.0	.0	1.0
5-6	.0	.3	.4	.1	.0	.0	.8	.0	.0	.5	.2	.0	.0	.8
7	.0	.2	.3	.2	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.2	.0	.1	.0	.0	.3	.0	.2	.0	.4	.0	.0	.6
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.4	.0	.0	*
13-16	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	1.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	3.5	1.9	.6	.1	.0	6.8	*	2.6	1.7	1.0	.5	.2	6.1

SEPTEMBER

AREA 0009, ANAHU O SHIMA
27.8N 129.3E

PERIOD: (OVER-ALL) 1963-1970

TABLE 16 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)							TOT OBS
	0-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	5.2	5.7	.0	.0	.0	.0	11.0	337
1-2	.7	17.6	6.3	.0	.0	.0	24.6	
3-4	.7	10.4	12.7	2.2	.0	.0	26.0	
5-6	.2	2.0	9.5	3.8	.0	.0	15.4	
7	.0	.7	6.5	3.2	.2	.0	10.6	
8-9	.4	.2	2.3	1.1	.4	.0	4.3	
10-11	.0	.4	.4	2.3	.5	.0	3.6	
12	.0	.0	.2	1.7	.5	.0	1.4	
13-16	.0	.0	.0	1.1	.7	.2	2.2	
17-19	.0	.0	.0	.4	.2	.0	.5	
20-22	.0	.0	.0	.0	.2	.0	.4	
23-25	.0	.0	.0	.2	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.2	37.0	38.1	14.9	2.7	.2	100.0	

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	2.3	17.2	14.4	5.1	3.0	.8	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	364	3
6-7	.0	2.1	8.3	6.3	4.9	1.9	.9	.1	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	214	5
8-9	.0	.7	1.2	3.0	4.7	.8	.7	.4	1.2	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	110	7
10-11	.0	.2	.1	.1	.6	1.4	1.5	.4	.1	.1	.0	.4	.1	.0	.0	.0	.0	.0	.0	.0	43	10
12-13	.0	.0	.0	.1	.4	.2	.7	.1	.2	.1	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	21	12
>13	.0	.0	.0	.1	.0	.1	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	10
INDET	4.4	2.6	1.2	.7	.0	.1	.4	.4	.0	.1	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	66	3
TOTAL	56	193	213	130	114	46	39	12	22	6	3	5	4	0	0	0	0	0	0	0	843	5
PCT	6.6	22.9	25.3	15.4	13.5	5.5	4.6	1.4	2.6	.7	.4	.6	.5	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1936-1970
(OVER-ALL) 1938-1970AREA 0009 AMAHI, O. SHIMA
27.8N 129.4E

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN SHWR	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN OBS	THOR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				FRZG	SNOW	OTHER PCPN					FOG	SMOKE	DUST	BLWG	NO SIO WBA	
N	.7	.4	.5	.0	.0	.0	.0	1.4		.2	#	#	.0	.0	23.7	
NE	1.7	.4	.6	.0	.0	.0	.0	2.5		.2	.1	.3	.0	.0	31.1	
E	.9	.4	.4	.0	.0	.0	.0	1.5		.1	.1	.3	.0	.0	14.8	
SE	.4	.1	.2	.0	.0	.0	.0	.6		.1	.0	.0	.0	.0	3.8	
S	.2	.2	.0	.0	.0	.0	.0	.4		.0	.0	.0	.0	.0	2.2	
SW	.2	.1	*	.0	.0	.0	.0	.3		.0	.0	.0	.0	.0	1.8	
W	#	.1	.1	.0	.0	.0	.0	.2		.0	.0	#	.0	.0	2.4	
NW	.1	.1	*	.0	.0	.0	.0	.3		.0	.0	#	.0	.0	7.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
TOT OBS	94	38	39	0	0	0	0	.0	154	13	4	15	.0	.0	1989	2174
TOT PCT	4.3	1.7	1.8	.0	.0	.0	.0	7.1		.6	.2	.7	.0	.0	91.5	

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN OBS	THOR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				FRZG	SNOW	OTHER PCPN					FOG	SMOKE	DUST	BLWG	NO SIO WBA	
0003	4.3	1.0	1.5	.0	.0	.0	.0	6.2		.2	.5	2.1	.0	.0	91.0	
0609	5.0	1.9	1.2	.0	.0	.0	.0	8.0		.0	.0	.2	.0	.0	91.8	
12015	3.8	1.8	1.9	.0	.0	.0	.0	6.7		1.0	.0	.2	.0	.0	92.3	
18021	4.5	2.4	2.6	.0	.0	.0	.0	7.9	156	1.3	.2	.4	.0	.0	90.1	2189
TOT	96	38	39	0	0	0	0	.0		13	4	16	.0	.0	2001	
PCT	4.4	1.7	1.8	.0	.0	.0	.0	7.1		.6	.2	.7	.0	.0	91.4	

OCTOBER

PERIOD: (PRIMARY) 1936-1970
(OVER-ALL) 1858-1970

AREA 0009 ANAHI O SHIMA
27.8N 129.4E

TABLE 3
PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)				
	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD		00	03	06	09	12
N	.6	6.6	13.4	4.5	.4	.0	.0	25.6	15.5		28.5	27.1	30.6	29.9	21.8
NE	.8	11.3	16.8	4.7	.2	.0	.0	33.8	14.1		30.5	29.9	33.4	32.9	35.9
E	1.0	7.0	7.2	1.6	.*	.0	.0	16.8	12.4		15.6	15.7	15.6	12.7	18.3
SE	.4	3.3	2.3	.6	.2	.0	.0	6.8	11.9		4.9	19.7	3.5	6.4	5.6
S	.3	1.4	1.5	.1	.2	.0	.0	3.6	12.7		4.0	2.5	3.3	4.8	2.2
SW	.3	1.4	.4	.*	.0	.0	.0	2.1	8.0		2.6	1.8	1.7	2.9	2.6
W	.3	1.5	.6	.2	.0	.0	.0	2.6	9.6		4.9	3.5	1.5	2.6	1.8
NW	.4	3.2	3.0	1.2	.*	.0	.0	7.8	13.0		8.2	9.2	9.8	7.3	7.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0
CALH	.8	829	1048	303	24	0	2318	.8	13.5		1.0	316	281	254	341
TOT OBS	114	35.8	45.2	13.1	1.0	.0		100.0			309	100.0	100.0	100.0	100.0
TOT PCT	4.9										100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD			00	03	06	09	12
N	3.1	11.6	9.1	1.8	.0	.0	25.6	15.5			27.8	27.8	30.3	20.9	24.1
NE	4.4	18.6	9.3	1.5	.0	.0	33.8	14.1			30.2	30.2	33.1	37.3	34.5
E	3.2	9.3	3.8	.5	.0	.0	16.8	12.4			15.6	15.6	14.2	19.4	17.5
SE	2.2	2.9	1.2	.4	.0	.0	6.8	11.9			7.3	7.3	4.9	7.3	7.6
S	.7	2.0	.7	.1	.1	.1	3.6	12.7			3.2	3.2	4.2	2.9	4.2
SW	1.0	.9	.2	.0	.0	.0	2.1	8.0			2.2	2.2	2.2	2.4	1.6
W	1.1	1.0	.4	.*	.0	.0	2.6	9.6			4.2	4.2	2.0	1.9	2.2
NW	1.8	3.7	2.0	.3	.0	.0	7.8	13.0			8.7	8.7	8.7	7.0	7.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0
CALH	.8	1162	622	107	2	2318	.8	13.5			.8	.8	.4	.9	1.2
TOT OBS	425	50.1	26.8	4.6	.1		100.0				635	100.0	100.0	100.0	100.0
TOT PCT	18.3										100.0	100.0	100.0	100.0	100.0

OCTOBER

PERIOD: (PRIMARY) 1936-1970
(OVER-ALL) 1858-1970AREA 0009 ANAHI O SHIMA
27.8N 129.4E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (OHT)

WIND SPEED (KNOTS)	48+	MEAN	PCT	TOTAL
00-03	0	13.7	100.0	625
06-09	0	13.9	100.0	535
12-15	0	12.8	100.0	666
18-21	0	13.9	100.0	492
TOT	0	13.5		2318
PCT	0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-9	TOTAL	MEAN
					OBS	CLOUD COVER
N	6.6	7.3	8.4	3.3		4.3
NE	8.7	8.2	11.2	7.9		4.8
E	3.4	2.8	7.1	4.3		5.2
SE	1.0	.8	1.9	.9		4.9
S	.6	.6	1.3	.9		5.3
SW	.3	.2	.7	.6		5.2
W	.5	.7	.7	.3		4.3
NW	1.7	1.7	3.8	1.0		4.6
VAR	.0	.0	.0	.0		.0
CALM	.4	.0	.0	.3		4.0
TOT OBS	269	259	406	226	1160	4.8
TOT PCT	23.2	22.3	35.0	19.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
N	.0	.1	.3	1.7	3.8	2.7	.1	.3	.0	.0	16.5	
NE	.3	.0	.7	2.1	5.5	5.7	.5	.4	.0	.3	21.4	
E	.0	.0	.3	1.4	2.8	2.3	.3	.2	.0	.0	10.2	
SE	.0	.0	.1	.2	1.0	.4	.1	.4	.0	.0	2.6	
S	.0	.0	.1	.2	.6	.3	.1	.0	.1	.0	2.1	
SW	.0	.0	.0	.1	.6	.1	.1	.1	.0	.0	1.8	
W	.0	.0	.0	.0	.4	.3	.1	.0	.0	.0	1.4	
NW	.0	.0	.0	.0	1.0	1.3	.3	.4	.0	.0	5.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	
TOT OBS	4	1	16	70	183	153	17	7	1	4	704	1160
TOT PCT	.3	.1	1.4	6.0	15.8	13.2	1.5	.6	.1	.3	60.7	100.0

PERIOD: (PRIMARY) 1936-1970
(OVER-ALL) 1858-1970

OCTOBER

AREA 0009 ANAHU D SHIMA
27.8N 129.4E

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)				
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2
= OR >6500	.3	.4	.4	.4	.4
= OR >5000	.9	1.0	1.0	1.0	1.0
= OR >3500	1.7	2.5	2.5	2.5	2.5
= OR >2000	11.8	15.3	15.8	15.8	15.8
= OR >1000	22.7	30.2	31.5	31.5	31.5
= OR >600	26.2	35.5	37.3	37.5	37.6
= OR >300	26.8	36.4	38.5	38.8	39.0
= OR >150	26.8	36.5	38.5	39.0	39.1
= OR > 0	26.8	36.6	38.7	39.2	39.4
TOTAL	312	426	451	457	459

TOTAL NUMBER OF OBS: 1165 PCT FREQ NH <5/8: 60.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	5	6	7	8 DBSD	TOTAL OBS
3.8	9.4	20.4	14	20.9	11.2	9.9	6.6	11.3	1197

PERIOD: (PRIMARY) 1936-1970
(OVER-ALL) 1858-1970

OCTOBER

AREA 0009 ANANI DASHIMA
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TABLE 8

PERCENT. FREQ. OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NH)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	
<1/2 ND PCP	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*	
TOT %	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.1	
1/2<1 ND PCP	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.1	
TOT %	.0	*	*	*	.0	.0	.0	.0	.0	.0	.1	
1<2 ND PCP	.1	.2	.0	.0	.0	.0	.0	.1	.0	.0	.4	
TOT %	.1	.2	*	.0	*	.0	*	.1	.0	.0	.2	
2<5 ND PCP	.2	.7	.4	.2	.2	.1	*	.0	.0	.0	1.9	
TOT %	.6	1.1	1.3	.5	.3	.2	*	.1	.0	.0	2.3	
5<10 ND PCP	.7	1.2	.6	.3	.1	.2	.1	.1	.0	.0	3.3	
TOT %	3.3	7.4	3.2	1.5	.8	.6	.5	1.1	.0	.3	15.5	
10+ ND PCP	.3	.3	.4	.1	*	*	*	.5	.0	.0	1.3	
TOT %	21.1	25.0	12.1	4.7	2.5	1.4	2.1	6.7	.0	.5	74.9	
TOT OBS	25.2	33.9	16.7	6.8	3.6	2.1	2.7	8.2	.0	.8	100.0	
TOT PCT												2174

PERIOD: (PRIMARY) 1936-1970
(OVER-ALL) 1936-1970

OCTOBER

AREA 0009 ANAHU B SHINA
27.0N 129.4E

TABLE 9

PERCENT AREA OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

V30Y (NH)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10+	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS		25.5	33.9	17.0	6.0	3.7	2.1	2.4	8.0	.0	.7	100.0
TOT PCT		25.5	33.9	17.0	6.0	3.7	2.1	2.4	8.0	.0	.7	100.0
TOT OBS		25.5	33.9	17.0	6.0	3.7	2.1	2.4	8.0	.0	.7	100.0
TOT PCT		25.5	33.9	17.0	6.0	3.7	2.1	2.4	8.0	.0	.7	100.0

OCTOBER

PERIOD: (PRIMARY) 1936-1970
(OVER-ALL) 1858-1970AREA 0009 ANAHI D-SHIMA
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	.0	.4	1.1	4.8	16.5	9.9	1.5	.4	.0	.4	34.9	65.1	272
06009	.3	.0	2.0	5.9	14.5	14.1	2.0	.3	.0	.0	39.1	60.9	304
12015	.9	.0	1.2	5.7	12.9	12.3	1.5	.9	.3	.6	36.2	63.8	334
18021	.0	.0	1.1	7.6	18.5	15.9	1.1	.7	.0	.4	45.3	54.7	276
TOT	4	1	16	71	183	155	18	7	1	4	460	726	1186
PCT	.3	.1	1.3	6.0	15.4	13.1	1.5	.6	.1	.3	38.8	61.2	100.0

TABLE 11

PERCENT FREQUENCY VS8Y (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.4	.0	.4	2.6	13.6	83.0	265
06009	.0	.0	.7	3.0	18.4	77.9	299
12015	.0	.0	.6	2.4	18.5	78.4	329
18021	.0	.4	.4	3.3	23.1	72.9	273
TOT	1	1	6	33	215	910	1166
PCT	.1	.1	.5	2.8	18.4	78.0	100.0

TABLE 12

CUMULATIVE PCT. FREQ OF RANGES OF VS8Y (NH) AND/OR
CEILING HGT (FEET, NH > 4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	.0	1.5	8.7	27.2	64.2	265
06009	.7	2.7	10.4	30.1	59.5	299
12015	.9	2.1	9.7	28.3	62.0	329
18021	.4	1.8	11.0	35.5	53.5	273
TOT	6	24	116	352	698	1166
PCT	.5	2.1	9.9	30.2	59.9	100.0

OCTOBER

PERIOD: (PRIMARY) 1936-1970
(OVER-ALL) 1858-1970

AREA 0009 AMAHI D-SHIMA
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TABLE 13

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100				
90/94	.0	.0	.0	.0	.1	.1	.0	.0			2	.2
85/89	.0	.0	.2	.0	.2	1.0	.2	.1			18	1.6
80/84	.0	.1	.3	1.0	2.9	7.8	6.7	3.3			243	22.1
75/79	.0	.0	.5	5.2	11.4	14.6	12.2	7.7			566	51.5
70/74	.0	.0	.0	4.6	7.3	4.2	3.0	2.9			249	22.7
65/69	.0	.0	.0	.3	.5	.7	.1	.3			20	1.8
TOTAL	0	1	18	122	245	312	244	156			1098	100.0
PCT	.0	.1	1.6	11.1	22.3	28.4	22.2	14.2				

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP											VAR	CALM
N	NE	E	SE	S	SW	W	NW					
.1	*	.0	.0	.0	.0	.1	*				.0	.0
.2	.7	.5	.2	.1	.0	.0	.0				.0	.0
2.7	6.9	5.4	2.6	1.7	.8	.8	1.0				.0	.3
13.1	18.8	9.6	2.4	1.5	.7	.6	4.5				.0	.4
9.0	7.4	2.5	.3	.1	.1	.5	2.5				.0	.2
1.0	.3	.0	.0	.0	.0	.1	.4				.0	.0
26.1	34.1	18.0	5.4	3.4	1.6	2.1	8.4				.0	.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR										TOTAL OBS
HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN		
0003	90	86	83	77	71	68	64	77.5		590
0609	91	86	84	77	70	68	64	77.4		534
12015	85	82	81	76	70	67	63	76.1		670
18021	82	81	80	75	70	66	64	75.4		492
TOT	91	85	82	77	70	68	63	76.6		2286

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR										TOTAL OBS
HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN			
0003	.0	15.9	21.2	27.9	20.8	14.1	74			283
0609	.0	17.7	24.5	32.5	17.7	7.5	72			265
12015	.0	9.5	24.3	24.0	24.3	17.8	76			304
18021	.0	8.0	19.6	30.0	25.6	16.8	77			250
TOT	0	141	248	313	244	156	75			1102

PERIOD: (PRIMARY) 1936-1970
(OVER-ALL) 1858-1970

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AREA 0009 AHAMI O SHIMA
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	61	65	69	73	77	81	85	89	TOT	W	WQ
	64	68	72	76	80	84	88	92	FOG	FOG	FOG
11/13	.0	.0	.0	.0	*	.1	*	.0	4	.0	.2
9/10	.0	.0	.0	.0	*	.2	.0	*	5	.0	.2
7/8	.0	.0	.0	.0	*	.4	.1	*	13	.0	.6
6	.0	.0	.0	.0	.1	.0	.1	.0	6	.0	.3
5	.0	.0	.0	.1	.1	.5	.2	.0	18	.0	.9
4	.0	.0	.0	.1	.7	1.3	.3	.0	50	.0	2.5
3	.0	.0	*	.0	.2	.2	.1	.0	12	.0	.6
2	.0	.0	.1	.5	2.3	2.8	.2	.0	120	.0	5.9
1	.0	.0	*	.2	1.1	1.4	.0	.0	58	.0	2.9
0	.0	.2	.3	3.7	7.0	4.5	.0	.0	317	.1	15.6
-1	.0	.0	.1	.9	2.9	1.5	.0	.0	111	.0	5.5
-2	.0	*	1.4	6.8	9.4	1.6	.0	.0	389	*	19.2
-3	.0	.0	*	2.1	5.1	.4	*	.0	157	.0	7.8
-4	.0	.3	2.0	5.7	4.0	.1	.0	.0	248	.0	12.3
-5	.0	.1	1.5	5.5	2.7	.2	.0	.0	204	*	10.0
-6	.0	*	.4	2.6	.5	.0	.0	.0	74	.0	3.7
-7/-8	.1	.2	2.9	3.6	.7	.1	.0	.0	154	.0	7.6
-9/-10	.1	.2	1.5	.7	.1	.0	.0	.0	54	.0	2.7
-11/-13	.1	.4	.5	.1	.0	.0	.0	.0	24	.0	1.2
-14/-16	.0	.1	*	.1	.0	.0	.0	.0	5	.0	.2
TOTAL	6	36	221	668	753	312	25	2	2033	4	2019
PCT	.3	1.8	10.9	33.0	37.2	15.4	1.2	.1	100.0	.2	99.8

PERIOD: (OVER-ALL) 1963-1970 OCTOBER AREA 0009 AMANI D SHIMA
27.8N 129.4E

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.1	.0	.0	.0	.0	1.3	*	.5	.0	.0	.0	.0	.6
1-2	.1	2.0	3.0	.0	.0	.0	5.1	.1	2.7	3.7	.0	.0	.0	6.5
3-4	.2	1.8	6.0	.5	.0	.0	8.5	.0	3.6	8.1	1.5	.0	.0	13.2
5-6	.0	.4	3.8	1.0	.2	.0	5.4	.0	.6	4.8	1.1	.0	.0	6.5
7	.0	.2	1.5	.3	.0	.0	2.1	.0	.4	1.5	1.6	.6	.0	4.1
8-9	.0	.0	1.1	.9	.0	.0	2.0	.0	*	.7	.1	.0	.0	.9
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.2	.0	.6
12	.0	.0	.2	.0	.1	.0	.3	.0	.0	.0	.4	*	.0	.4
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	*	.0	.0	*
23-25	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	5.5	15.6	2.9	.3	.0	24.9	.1	7.9	19.2	5.2	.8	.0	33.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.2	.0	.0	.0	.0	.3	.0	.4	.0	.0	.0	.0	.4
1-2	.5	3.0	1.3	.0	.0	.0	4.8	.2	.6	1.2	.0	.0	.0	1.9
3-4	.1	1.9	3.9	.7	.0	.0	6.6	*	1.1	.5	.4	.0	.0	2.1
5-6	.0	.7	3.0	.1	.0	.0	3.9	.0	.6	.2	.0	.0	.0	.8
7	.0	.4	1.1	.5	.0	.0	2.0	.0	.0	*	*	.0	.0	.1
8-9	.0	.1	.5	.1	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	6.3	9.7	1.5	.0	.0	18.4	.2	2.7	1.9	.5	.0	.0	5.3

PERIOD: (OVER-ALL) 1963-1970

OCTOBER
TABLE 18

AREA 0009 ANAMI O SHIMA
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PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.4
1-2	.0	.5	.3	.0	.0	.0	.9	.2	.5	*	.0	.0	.0	.7
3-4	.0	.3	.1	.0	.0	.0	.4	.0	.3	.2	.0	.0	.0	.6
5-6	.0	.4	.5	.0	.0	.0	.7	.0	.0	.2	.0	.0	.0	.2
7	.0	.2	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.4	1.4	.1	.0	.0	2.9	.2	1.0	.7	.0	.0	.0	1.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.3	.2	.0	.0	.0	.5
1-2	.0	.6	.3	.0	.0	.0	.9	.0	1.3	.8	.0	.0	.0	2.1
3-4	.0	1.0	.0	.0	.0	.0	1.0	.0	1.7	2.7	.2	.0	.0	4.6
5-6	.0	.2	.0	.0	.0	.0	.2	.6	.2	1.3	*	.0	.0	2.1
7	.0	.0	.0	.3	.0	.0	.3	.0	.0	.6	.1	.0	.0	.7
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	*	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.8	.3	.5	.0	.0	2.6	.6	3.5	5.6	.4	.0	.0	10.1

AREA 0009 ANAMI D SHIMA
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OCTOBER

PERIOD: (OVER-ALL) 1963-1970

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)							TOT OBS
	0-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	1.2	2.9	.4	.0	.0	.0	4.4	
1-2	1.2	11.2	10.6	.0	.0	.0	22.9	
3-4	.4	11.7	21.3	3.5	.0	.0	36.9	
5-6	.6	3.1	13.8	2.3	.2	.0	20.0	
7	.0	1.2	5.2	3.1	.6	.0	10.0	
8-9	.0	.2	2.3	1.2	.0	.0	3.7	
10-11	.0	.0	.0	.6	.2	.0	.8	
12	.0	.0	.2	.4	.2	.0	.8	
13-16	.0	.0	.4	.0	.0	.0	.4	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.2	.0	.0	.2	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.3	30.2	54.2	11.2	1.2	.0	100.0	
							520	

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.4	10.0	17.2	9.5	3.8	1.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	400	4
6-7	.0	1.4	8.3	10.6	5.0	2.5	1.2	1.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	277	5
8-9	.0	.0	1.2	3.6	3.5	2.4	1.4	1.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	123	7
10-11	.0	.4	.3	.9	1.2	.8	.3	.2	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	40	9
12-13	.0	.0	.1	.2	.3	.0	.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	12
>13	.0	.0	.0	.1	.0	.0	.2	.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	13
INDET	2.1	1.1	1.4	.8	.3	.2	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	53	3
TOTAL	32	119	262	235	130	66	34	28	9	1	2	0	0	0	0	0	0	0	0	918	5
PCT	3.5	13.0	28.5	25.6	14.2	7.2	3.7	3.1	1.0	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1936-1970
(OVER-ALL) 1858-1970

AREA 0009 AMAHI O SHIMA
27.9N 129.4E

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE				HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN DBS	THOR LTNG	OTHER WEATHER PHENOMENA							TOTAL OBS
				PCPN	FRZG	SNOW	OTHER					PCPN	WD	HAZE	BLWG	DUST	SIG	WEA	
N	2.1	.4	.2	.0	.0	.0	.0	.0	2.7		.0	*	*	.0	.0	.0	.0	27.8	
NE	1.2	.1	.2	.0	.0	.0	.0	.0	1.6		.0	*	*	.0	.0	.0	.0	25.4	
E	1.2	.3	.5	.0	.0	.0	.0	.0	2.0		.1	.0	.0	.1	.0	.0	.0	15.6	
SE	.6	.1	.3	.0	.0	.0	.0	.0	.9		*	.0	.0	.0	.0	.0	.0	5.4	
S	.1	.1	.1	.0	.0	.0	.0	.0	.2		.0	.0	.0	.0	.0	.0	.0	2.6	
SW	.1	.1	.0	.0	.0	.0	.0	.0	.1		.0	.0	.0	.0	.0	.0	.0	1.8	
W	.3	.1	.1	.0	.0	.0	.0	.0	.4		.0	.0	.0	.0	.0	.0	.0	2.2	
NW	.4	*	.2	.0	.0	.0	.0	.0	.7		.0	.0	.0	.0	.0	.0	.0	9.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.1	.0	.0	.0	.6	
TOT OBS	105	19	28	0	0	0	0	0	.0	150	.2	1	1	2	0	0	0	1595	
TOT PCT	6.0	1.1	1.6	.0	.0	.0	.0	.0	8.6		.1	.1	.1	.1	.0	.0	.0	91.2	

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE				HAIL	PCT FREQ PCPN AT OBS	TOTAL PCPN OBS	THDR LTNG	PCPN	WD	HAZE	BLWG	DUST	SIG	TOTAL OBS
				PCPN	FRZG	SNOW	OTHER											
00003	7.0	.7	1.2	.0	.0	.0	.0	.0	8.9		.2	.2	.2	.5	.0	.0	90.4	
06009	4.7	1.6	2.4	.0	.0	.0	.0	.0	8.2		.0	.0	.0	.0	.0	.0	91.8	
12015	5.9	1.3	.9	.0	.0	.0	.0	.0	8.1		.0	.0	.0	.0	.0	.0	91.9	
18021	6.3	.7	2.2	.0	.0	.0	.0	.0	9.2	150	.2	.0	.0	.0	.0	.0	90.6	
TOT	105	19	28	0	0	0	0	0	8.6		.2	1	1	2	0	0	1599	1733
PCT	6.0	1.1	1.6	.0	.0	.0	.0	.0			.1	.1	.1	.1	.0	.0	91.2	

NOVEMBER

PERIOD: (PRIMARY) 1936-1970
(OVER-ALL) 1858-1970

AREA 0009 ANAHI O SHIMA
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TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-3	4-10	11-21	22-33	34-47	48+	00	03	06	09				12	15	18	21	
N	.2	7.7	16.4	5.5	.7	.1	30.6	34.1	29.0	40.2	28.7	32.3	26.2	23.0				
NE	.5	9.2	14.9	2.5	.1	.1	27.3	25.0	30.7	26.1	26.4	27.2	24.6	31.3				
E	.5	6.4	8.9	1.4	.1	.0	17.3	15.7	18.2	12.9	19.0	18.0	18.8	13.2				
SE	*	2.8	2.8	.4	.0	.0	6.0	5.5	3.6	2.6	6.8	6.7	8.2	3.8				
S	.1	1.4	1.0	.2	.0	.0	2.7	2.5	3.6	2.6	3.3	1.4	2.9	1.5				
SW	.3	1.0	.5	.2	.0	.0	2.0	2.5	2.0	2.6	1.6	2.1	2.6	.6				
W	.2	1.4	.9	.1	.0	.0	2.6	2.2	2.1	2.8	3.1	1.8	2.0	4.4				
NW	.3	3.5	4.4	2.2	.1	.0	10.6	13.3	8.1	9.7	9.7	10.5	12.8	12.4				
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
CALM	.7	941	235	19	2	1885	.7	.9	.0	.6	1.4	.0	1.9	.0				
TOT OBS	58	630	49.9	12.5	1.0	.1	100.0	220	223	176	294	291	260	172				
TOT PCT	3.1	33.4	49.9	12.5	1.0	.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	00					03	06	09	12	15
N	2.7	14.4	11.4	2.0	.1			30.6	15.9	29.5	34.0	30.5	28.9	
NE	3.2	16.2	6.9	.9	.1			27.3	13.6	26.7	28.7	26.8	27.3	
E	2.7	9.6	4.6	.4	*			17.3	13.1	17.5	15.9	18.5	16.6	
SE	1.2	3.6	1.2	*	.0			6.0	12.0	6.0	4.6	6.8	6.4	
S	.5	1.7	.4	.2	.0			2.7	11.9	3.3	3.1	2.4	2.3	
SW	.5	1.2	.3	.0	.0			2.0	10.5	2.3	2.3	1.8	1.8	
W	.8	1.5	.3	*	.0			2.6	10.4	2.8	2.4	2.4	3.0	
NW	1.7	4.7	3.6	.6	*			10.6	14.7	11.1	8.8	10.1	12.6	
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	
CALM	.7	1000	539	77	5			.7	.0	.9	.3	.7	1.32	
TOT OBS	264	53.1	28.6	4.1	.3		1885	100.0	13.9	469	399	585	432	
TOT PCT	14.0	53.1	28.6	4.1	.3			100.0	100.0	100.0	100.0	100.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1936-1970
(OVER-ALL) 1858-1970

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GHT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+				
0003	.9	2.1	33.7	50.5	11.5	1.1	.2	14.0	100.0		469
0609	.3	2.5	30.1	53.4	13.0	.8	.0	14.3	100.0		399
1215	.7	3.1	36.1	47.7	10.9	1.4	.2	13.6	100.0		585
1821	1.2	1.4	32.6	49.1	15.0	.7	.0	14.0	100.0		432
TOT	14	44	630	941	235	19	2	13.9			1865
PCT	.7	2.3	33.4	49.9	12.5	1.0	.1	100.0			

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	4.8	5.3	12.3	7.1		5.3
NE	5.4	5.5	10.6	5.2		4.9
E	3.5	3.5	5.8	5.4		5.3
SE	1.4	.7	2.3	2.4		5.5
S	.6	.7	.8	.9		5.2
SW	.8	.8	.7	.2		4.0
W	.7	.5	.8	.4		4.5
NW	1.6	1.8	4.2	2.3		5.3
VAR	.0	.0	.0	.0		.0
CALM	.2	.3	.3	.1		4.2
TOT OBS	194	194	384	244	1016	5.2
TOT PCT	19.1	19.1	37.8	24.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH > 4/R)
AND OCCURRENCE OF NH < 5/8 BY WIND DIRECTION

WIND DIR	000	149	150	299	300	599	600	999	1000	2000	3000	3500	4999	5000	6499	7999	8000+	NH < 5/8	ANY HGT	TOTAL OBS
N	.2	.0	.0	.0	.5	.3	2.2	1.7	6.2	5.0	.5	.7	.1	.1	.2	.0	.0	.0	.0	14.5
NE	.2	.0	.0	.0	.3	.3	1.7	2.0	4.1	4.3	.7	.7	.1	.1	.1	.0	.0	.0	.0	15.1
E	.0	.0	.0	.0	.3	.3	2.0	.6	3.1	1.8	.3	.3	.2	.2	.0	.0	.0	.0	.0	10.5
SE	.1	.1	.1	.1	.1	.1	.6	.3	1.3	1.6	.2	.2	.0	.0	.0	.0	.0	.0	.0	2.8
S	.1	.0	.0	.0	.1	.1	.3	.1	.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	1.8
SW	.0	.0	.0	.0	.1	.1	.1	.1	.2	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	1.9
W	.0	.1	.1	.1	.1	.1	.0	.0	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5
NW	.0	.1	.1	.1	.1	.1	.6	.0	2.6	1.7	.1	.1	.0	.0	.0	.0	.0	.0	.0	4.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS	6	2	2	2	14	14	77	77	187	154	21	21	5	5	5	5	5	5	5	1016
TOT PCT	.6	.2	.2	.2	1.4	1.4	7.6	7.6	18.4	15.2	2.1	2.1	.5	.5	.5	.5	.5	.5	.5	100.0

PERIOD: (PRIMARY) 1936-1970
(OVER-ALL) 1858-1970

NOVEMBER

AREA 0009 AMANI O SHIMA
27.911 129.48

TABLE 7
CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	VSBY (NM) = OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.4	.5	.5	.5	.5	.5	.5	.5
= OR >5000	.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0
= OR >3500	2.3	2.9	2.9	2.9	2.9	2.9	2.9	2.9
= OR >2000	14.9	17.9	18.1	18.1	18.1	18.1	18.1	18.1
= OR >1000	25.7	34.6	36.1	36.2	36.5	36.5	36.5	36.5
= OR >600	29.2	40.3	43.3	43.7	44.1	44.1	44.1	44.1
= OR >300	29.9	41.3	44.6	45.1	45.5	45.5	45.5	45.5
= OR >150	29.9	41.3	44.7	45.2	45.6	45.7	45.7	45.7
= OR >0	29.9	41.3	44.7	45.6	46.1	46.2	46.3	46.3
TOTAL	303	418	453	462	467	468	469	469

TOTAL NUMBER OF OBS: 1013 PCT FREQ NH <5/8: 53.7

TABLE 7A
PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
3.7	9.0	16.9	12.5	11.7	11.7	9.5	13.0	9.0	13.7	1.0	1050

PERIOD: (PRIMARY) 1936-1970
(OVER-ALL) 1858-1970

NOVEMBER

AREA 0009 AHANI O SHIMA
27.9N 129.4E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	.1	.0	.1	.0	.0	.0	*	*	.0	.0	.2	
PCP	.0	.1	.0	.0	.1	.0	.1	.0	.0	.0	.2	
NO PCP	.1	.1	.1	.0	.1	.0	.1	*	.0	.0	.4	
TOT %												
1/2<1	.3	.2	.1	.0	.1	.1	.0	*	.0	.0	.7	
PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NO PCP	.3	.2	.1	.0	.1	.1	.0	*	.0	.0	.7	
TOT %												
1<2	.3	.2	.2	.1	*	.0	.0	.0	.0	.0	.8	
PCP	*	.1	.0	*	.1	*	.0	*	.0	.0	.2	
NO PCP	.3	.2	.2	.1	.1	*	.0	*	.0	.0	1.0	
TOT %												
2<5	.8	.3	.4	.2	.0	.1	.1	.2	.0	.0	2.1	
PCP	.5	.3	.2	.2	.1	.0	.0	.2	.0	.0	1.7	
NO PCP	1.3	.8	.7	.4	.1	.1	.1	.4	.0	.0	3.8	
TOT %												
5<10	.9	.3	.9	.3	.1	.0	.1	.3	.0	.0	3.0	
PCP	6.1	4.5	3.3	1.1	.6	.3	.3	1.5	.0	.1	17.8	
NO PCP	6.9	4.9	4.2	1.5	.7	.3	.4	1.9	.0	.1	20.8	
TOT %												
10+	.4	.6	.4	.2	.0	*	.1	.1	.0	.0	1.7	
PCP	21.3	20.3	12.1	4.1	1.9	1.5	1.8	7.9	.0	.6	71.6	
NO PCP	21.7	20.9	12.4	4.3	1.9	1.5	2.0	8.0	.0	.6	73.3	
TOT %												
TOT OBS	30.6	27.0	17.7	6.3	2.9	2.0	2.6	10.4	.0	.7	100.0	1745
TOT PCT												

PERIOD: (PRIMARY) 1936-1970
(OVER-ALL) 1858-1970

NOVEMBER

AREA 0009 ANAHI O SHIMA
27.9N 129.4E

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10+	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS		30.5	26.8	17.5	6.2	2.8	2.0	2.6	10.9	.0	.7	100.0	1800

PERIOD: (PRIMARY) 1936-1970
(OVER-ALL) 1858-1970

NOVEMBER

AREA 0009 ANAMI O SHIMA
27.9N 129.4E

TABLE 10

PERCENT FREQUENCY OF CEILING. P. H. 5 (FEET, NH >4/8) AND
OCCURRENCE OF N. 23/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 5499	5500 7999	8000+	TOTAL	NH >5/8 ANY HGT	TOTAL OBS
00003	.8	.4	1.6	7.0	19.9	4.5	4.3	.4	.8	.0	49.6	50.4
06009	.4	.4	1.2	9.5	13.2	1.7	.4	.4	.0	49.6	50.4	242
12015	.4	.0	1.8	15.8	17.6	1.8	.7	.4	.0	45.0	55.0	278
18021	.8	.0	.8	6.9	13.0	16.1	.4	.4	.0	38.7	61.3	261
TOT PCT	6 .6	4 .2	14 1.4	77 7.4	188 18.1	155 14.9	21 2.0	5 .5	5 .5	473 45.6	564 54.4	1037 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.8	.8	.4	3.6	14.9	79.4	248
06009	.0	1.6	2.0	4.1	14.3	77.9	244
12015	.0	.0	.7	4.8	21.5	73.0	270
18021	.4	.4	.8	3.5	21.2	73.7	255
TOT PCT	3 .3	7 .7	10 1.0	41 4.0	184 18.1	772 75.9	1017 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1000	1000+ <5 AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.8	3.6	13.3	37.9	48.8
06009	1.6	3.7	15.2	35.2	49.6
12015	.7	2.6	11.9	34.4	53.7
18021	1.2	2.7	10.6	30.2	59.2
TOT PCT	11 1.1	32 3.1	129 12.7	350 34.4	538 52.9

PERIOD: (PRIMARY) 1936-1970
(OVER-ALL) 1958-1970

AREA 0007, ANANI, P. SUMMA
27, 941, 1990

Table 14

[illegible]

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (CONT)	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR										TOTAL
	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL		
04	80	78	72	64	60	57	71.7	664	083	082	
05	80	79	72	64	61	59	71.9	396	080	121	
06	80	77	71	64	61	59	70.9	381	081	162	
07	79	76	70	63	61	58	70.2	424	082	161	
08	81	77	72	64	61	57	71.1	1607	084	085	

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

NUMBER	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
1000	0	0	0	0	0	1	17	19	75	108
1001	0	0	0	0	0	2	19	19	75	121
1002	0	0	0	0	0	3	17	10	73	129
1003	0	0	0	0	0	3	17	10	73	144
1004	0	0	0	0	0	4	18	11	73	164
1005	0	0	0	0	0	5	16	11	73	204
1006	0	0	0	0	0	5	16	11	73	264
1007	0	0	0	0	0	5	16	11	73	304
1008	0	0	0	0	0	5	16	11	73	364
1009	0	0	0	0	0	5	16	11	73	404
1010	0	0	0	0	0	5	16	11	73	464
1011	0	0	0	0	0	5	16	11	73	504
1012	0	0	0	0	0	5	16	11	73	564
1013	0	0	0	0	0	5	16	11	73	604
1014	0	0	0	0	0	5	16	11	73	664
1015	0	0	0	0	0	5	16	11	73	704
1016	0	0	0	0	0	5	16	11	73	764
1017	0	0	0	0	0	5	16	11	73	804
1018	0	0	0	0	0	5	16	11	73	864
1019	0	0	0	0	0	5	16	11	73	904
1020	0	0	0	0	0	5	16	11	73	964
1021	0	0	0	0	0	5	16	11	73	1004
1022	0	0	0	0	0	5	16	11	73	1064
1023	0	0	0	0	0	5	16	11	73	1104
1024	0	0	0	0	0	5	16	11	73	1164
1025	0	0	0	0	0	5	16	11	73	1204
1026	0	0	0	0	0	5	16	11	73	1264
1027	0	0	0	0	0	5	16	11	73	1304
1028	0	0	0	0	0	5	16	11	73	1364
1029	0	0	0	0	0	5	16	11	73	1404
1030	0	0	0	0	0	5	16	11	73	1464
1031	0	0	0	0	0	5	16	11	73	1504
1032	0	0	0	0	0	5	16	11	73	1564
1033	0	0	0	0	0	5	16	11	73	1604
1034	0	0	0	0	0	5	16	11	73	1664
1035	0	0	0	0	0	5	16	11	73	1704
1036	0	0	0	0	0	5	16	11	73	1764
1037	0	0	0	0	0	5	16	11	73	1804
1038	0	0	0	0	0	5	16	11	73	1864
1039	0	0	0	0	0	5	16	11	73	1904
1040	0	0	0	0	0	5	16	11	73	1964
1041	0	0	0	0	0	5	16	11	73	2004
1042	0	0	0	0	0	5	16	11	73	

PERIOD: (PRIMARY) 1936-1970
(OVER-ALL) 1898-1970

NOVEMBER

AREA 0009 AMAMI O SHIMA
27.9N 129.4E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	57	61	65	69	73	77	81	TOT	W FOG	MO FOG
7/8	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
6	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
5	.0	.0	.0	.0	.1	.1	.3	8	.0	.5
4	.0	.0	.0	.1	.4	.5	.2	20	.0	1.2
3	.0	.0	.0	.0	.2	.3	.1	10	.0	.6
2	.0	.0	.2	.3	1.6	.2	.5	62	.0	3.8
1	.0	.0	.0	.1	.5	.7	.1	22	.0	1.3
0	.0	.0	.2	1.5	6.1	2.3	.1	168	.0	10.2
-1	.0	.0	.0	.7	2.4	.7	.0	63	.0	3.8
-2	.0	.1	1.1	5.8	6.8	1.3	.0	246	.0	15.0
-3	.0	.0	.2	1.5	2.9	.7	.1	88	.0	5.4
-4	.0	.6	2.9	7.4	4.3	.2	.0	253	.0	15.4
-5	.1	1.3	3.6	5.5	2.7	.1	.0	218	.0	13.3
-6	.0	.1	.8	2.4	1.1	.0	.0	71	.0	4.3
-7/-8	.0	1.6	4.6	5.2	.7	.0	.0	198	.1	12.0
-9/-10	.1	1.6	3.5	2.3	.0	.0	.0	122	.0	7.4
-11/-13	.1	1.8	1.9	.4	.1	.0	.0	70	.0	4.3
-14/-16	.3	.6	.1	.0	.0	.0	.0	16	.0	1.0
-17/-19	.3	.1	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	8	314	544	488	133	24	1638	1	1	1637
PCT	.5	7.8	19.2	33.2	29.8	8.1	1.5	100.0	.1	99.9

PERIOD: (OVER-ALL) 1963-1970 NOVEMBER AREA 0009 ANAMI O SHIMA
27.9N 129.4E

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.6	.0	.0	.0	.0	.8	.4	.2	.0	.0	.0	.0	.6
1-2	.2	2.6	2.1	.0	.0	.0	4.9	.3	3.2	2.2	.0	.0	.0	5.7
3-4	.0	2.6	6.8	1.3	.0	.0	10.6	.0	2.9	6.3	.0	.0	.0	9.2
5-6	.0	.6	6.4	.6	.2	.0	7.8	.0	.3	3.0	1.1	.0	.0	4.4
7	.0	.2	1.2	2.0	.2	.0	3.6	.0	.3	1.6	1.0	.0	.0	2.9
8-9	.0	.0	1.1	.4	.0	.0	1.6	.1	.0	.4	.0	.0	.0	.5
10-11	.0	.0	.2	.6	.2	.0	1.0	.0	.0	.2	.1	.2	.0	.4
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
13-16	.0	.0	.0	.3	.0	.0	.3	.0	.0	.2	.3	.0	.0	.5
17-19	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	6.6	17.7	5.3	.8	.0	30.7	.8	6.9	14.1	2.5	.2	.0	24.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.8	.0	.0	.0	.0	.8	.0	.2	.0	.0	.0	.0	.2
1-2	.0	4.3	.9	.0	.0	.0	5.2	.0	1.8	.2	.0	.0	.0	2.1
3-4	.0	1.3	4.5	.7	.0	.0	6.5	.0	.7	1.8	.2	.0	.0	2.8
5-6	.2	.2	2.5	.4	.0	.0	3.3	.0	.1	1.2	.6	.0	.0	1.8
7	.0	.2	2.7	.2	.0	.0	3.1	.0	.0	.0	.1	.0	.0	.1
8-9	.2	.0	.2	.0	.0	.0	.4	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.6	.0	.0	.0	.6	.0	.0	.2	.0	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	6.8	11.4	1.2	.0	.0	19.8	.0	2.8	3.7	.8	.0	.0	7.4

PERIOD: (OVER-ALL) 1963-1970

NOVEMBER
TABLE 18

AREA 0009, AMAHI D SHIMA
27.9N 129.4E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2
1-2	.0	.3	.0	.0	.0	.0	.3	.2	.1	.0	.0	.0	.0	.3
3-4	.0	.4	.7	.0	.0	.0	1.1	.0	.5	.1	.0	.0	.0	.6
5-6	.0	.0	.0	.4	.0	.0	.4	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.7	.7	.6	.0	.0	2.1	.4	.6	.3	.0	.0	.0	1.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.3	.0	.4	.0	.0	.0	.7
1-2	.0	.2	.6	.0	.0	.0	.8	.0	1.5	1.7	.5	.0	.0	1.5
3-4	.0	.6	.0	.0	.0	.0	.6	.0	1.3	.0	.0	.0	.0	3.5
5-6	.0	.0	.2	.0	.0	.0	.2	.0	.0	.2	.3	.1	.0	2.5
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.6	.0	.0	1.5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.2	.0	.7
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.5
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.7	.8	.0	.0	.0	1.6	.3	2.7	5.5	2.7	.3	.0	11.6

PERIOD: (OVER-ALL) 1963-1970

NOVEMBER

AREA 0009 ANAMI O SHIMA
27.9N 129.4E

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)							TOT OBS
	0-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	2.4	1.8	.4	.0	.0	.0	4.7	449
1-2	.7	14.0	6.0	.0	.0	.0	20.7	
3-4	.0	10.2	21.8	2.7	.0	.0	34.7	
5-6	.2	1.1	15.6	3.3	.2	.0	20.5	
7	.0	.7	6.5	4.0	.2	.0	11.4	
8-9	.2	.0	2.2	.7	.2	.0	3.3	
10-11	.0	.0	1.1	1.1	.4	.0	2.7	
12	.0	.0	.2	.2	.0	.0	.4	
13-16	.0	.0	.2	1.1	.0	.0	1.3	
17-19	.0	.0	.0	.0	.2	.0	.2	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.6	27.8	54.1	13.1	1.3	.0	100.0	

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	.9	10.9	19.9	9.0	3.3	1.5	1.1	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	354	4
6-7	.0	.9	8.6	10.2	5.5	2.1	.4	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	214	5
8-9	.0	.1	1.2	2.3	4.3	1.9	1.1	.3	.7	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	89	7
10-11	.0	.1	.7	.8	.8	1.1	1.1	.8	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	42	8
12-13	.0	.0	.1	.3	.0	.0	.3	.0	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	11
>13	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	4	17
INDET	1.2	.7	1.2	1.3	.1	.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	40	4
TOTAL	16	96	239	180	105	54	30	14	13	1	3	1	0	0	0	0	0	0	0	0	752	5
PCT	2.1	12.8	31.8	23.9	14.0	7.2	4.0	1.9	1.7	.1	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1935-1970
(OVER-ALL) 1864-1970

AREA 0009 ANAMI O SHIMA
27.9N 129.4E

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA						TOTAL OBS
				FRZG	SNOW	OTHER PCPN					PCPN	FOG	SMOKE	DUST	NO	SIG	
N	1.6	.3	.6	.0	.0	.0	.0	2.5		.0	.1	.0	.1	.0	.0	29.5	
NE	1.7	.4	.8	.0	.0	.0	.0	2.7		.0	.0	.0	.0	.0	.0	18.9	
E	.9	.3	.3	.0	.0	.0	.0	1.4		.0	.0	.0	.0	.0	.0	10.8	
SE	.9	.1	.3	.0	.0	.0	.0	1.2		.0	.0	.0	.0	.0	.0	4.0	
S	.4	*	.1	.0	.0	.0	.0	.5		.0	.0	.0	.0	.0	.0	4.3	
SW	.3	.0	.1	.0	.0	.0	.0	.4		.0	.0	.0	.0	.0	.0	1.8	
W	.2	.0	.0	.0	.0	.0	.0	.2		.0	.0	.0	.0	.0	.0	3.0	
NW	.4	.4	.3	.0	.0	.0	.0	1.1		.0	.0	.0	.0	.0	.0	16.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.0	.1	.0	.0	.0	.0	.1		.0	.0	.0	.0	.0	.0	1.1	
TOT OBS	96	24	38	0	0	0	0	.1	154	.0	2	4	4	0	0	1363	1523
TOT PCT	6.3	1.6	2.5	.0	.0	.0	.0	10.1		.0	.1	.3	.3	.0	.0	89.5	

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA						TOTAL OBS
				FRZG	SNOW	OTHER PCPN					PCPN	FOG	SMOKE	DUST	NO	SIG	
00003	4.7	1.1	2.5	.0	.0	.0	.0	8.1		.0	.0	.0	.6	.0	.0	91.4	
06009	4.9	1.8	2.3	.0	.0	.0	.0	8.8		.0	.0	.0	.0	.0	.0	91.2	
12015	9.0	.9	2.1	.0	.0	.0	.0	11.8		.0	.2	.0	.2	.0	.0	87.8	
18021	6.4	2.6	3.2	.0	.0	.0	.0	11.8	155	.0	.3	.0	.3	.0	.0	87.6	1526
TOT	97	24	38	0	0	0	0	10.2		.0	2	4	4	.0	.0	1365	
PCT	6.4	1.6	2.5	.0	.0	.0	.0	10.2		.0	.1	.3	.3	.0	.0	89.4	

DECEMBER

PERIOD: (PRIMARY) 1933-1970
(OVER-ALL) 1864-1970

AREA 0009 AMAMI D SHIMA
27.9N 129.4E

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+	00	03	06	09				12	15	18	21				
N	.5	7.8	17.2	6.3	.6	.0	32.4	16.0	29.9	30.0	32.7	33.7	33.0	34.3	31.1	35.3					
NE	.5	8.3	10.7	1.9	.1	.0	21.5	13.0	22.7	20.1	22.8	22.3	21.5	21.6	19.1	22.4					
E	.4	5.8	5.1	.5	.0	.0	11.8	11.2	12.0	10.1	11.4	11.2	11.0	12.5	12.2	12.9					
SE	.3	2.7	2.1	.4	.0	.0	5.5	11.2	4.1	6.1	6.6	4.0	6.1	5.8	6.6	3.1					
S	.4	2.4	1.4	.3	.0	.0	4.6	10.9	6.7	3.3	5.3	3.9	1.9	5.7	5.2	4.5					
SW	.2	1.4	.6	.1	.0	.0	2.2	9.1	3.3	3.4	2.7	.3	2.6	2.2	.9	2.1					
W	.1	1.6	1.2	.2	.1	.0	3.2	12.4	2.2	4.9	3.3	2.4	3.4	2.0	4.3	3.1					
NW	.6	4.1	8.7	3.6	.5	.0	17.4	15.8	16.9	20.6	13.1	22.2	18.2	15.7	18.9	15.2					
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0					
CALM	1.3						1.3	.0	2.3	1.5	2.0	.0	1.2	.4	1.8	1.4					
TOT OBS	74	582	803	226	22	0	1709	13.8	215	205	249	167	246	255	227	145					
TOT PCT	4.3	34.1	47.0	13.3	1.3	.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0					

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-6	7-16	17-27	28-40	41+				00 03	06 09	12 15	18 21			
N	2.3	15.6	12.4	2.1	.1	32.4	16.0	29.9	33.1	33.7	32.7				
NE	3.0	12.8	5.1	.6	.1	21.5	13.0	21.4	22.6	21.6	20.4				
E	2.6	7.0	2.1	.1	.0	11.8	11.2	11.1	11.4	12.2	12.5				
SE	1.4	3.1	.9	.1	.0	5.5	11.2	5.1	5.6	5.9	5.2				
S	1.2	2.5	.8	.1	.0	4.6	10.9	5.1	4.7	3.8	4.9				
SW	.9	1.2	.2	.0	.0	2.2	9.1	3.3	2.9	2.4	1.3				
W	.7	1.7	.6	.2	.0	3.2	12.4	3.5	3.7	2.6	3.8				
NW	2.0	7.8	6.4	1.1	.1	17.4	15.8	18.7	16.7	16.9	17.5				
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
CALM	1.3	881	487	73	4	1709	13.8	1.9	1.2	.8	1.6				
TOT OBS	264	51.6	28.5	4.3	.2	100.0		420	416	501	372				
TOT PCT	15.4	51.6	28.5	4.3	.2	100.0		100.0	100.0	100.0	100.0				

DECEMBER

PERIOD: (PRIMARY) 1935-1970
(OVER-ALL) 1864-1970

AREA 0009 AMAHI D SHIMA
27.9N 129.4E

TABLE 4

	PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)										PCT FREQ
	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN			
00003	1.9	2.9	34.5	46.9	12.4	1.4	.0	13.6	100.0		
06009	1.2	2.9	33.2	48.8	13.7	.2	.0	13.7	100.0		
12015	.8	3.8	34.7	44.7	14.6	1.4	.0	13.7	100.0		
18021	1.6	2.2	33.6	48.1	12.4	2.2	.0	14.1	100.0		
TOT	23	51	532	803	228	22	0	13.8			
PCT	1.3	3.0	34.1	47.0	13.3	1.3	.0	100.0			

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 &	OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	3.4	5.0	11.1	12.5			6.0
NE	4.3	3.5	6.5	8.1			5.5
E	1.3	2.5	4.0	4.4			5.8
SE	1.0	.7	1.3	2.4			5.7
S	.4	.9	1.7	2.1			6.0
SW	.2	.6	.8	.7			5.5
W	.7	.6	.8	.6			4.7
NW	1.9	2.0	7.5	4.7			5.8
CALM	.0	.0	.0	.0			.0
VAR	.5	.6	.3	.0			3.2
TOT OBS	129	153	316	331		929	5.7
TOT PCT	13.9	16.5	34.0	35.6		100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	ANY HGT	TOTAL OBS
N	.2	.0	.7	3.3	9.0	6.4	.6	.1	.2	.0	.0	.0	11.5
NE	*	.0	.6	2.2	4.3	3.7	.4	.4	.0	.0	.0	.0	11.0
E	.1	.0	.1	1.0	1.9	3.6	.4	.0	.1	.0	.0	.0	5.2
SE	.2	.0	.0	.5	1.2	.7	.1	.0	.0	.0	.0	.0	2.9
S	.0	.0	.1	.9	.6	1.0	.3	.1	.0	.0	.0	.0	2.1
SW	.0	.1	.0	.4	.5	.5	.5	.0	.0	.0	.1	.0	1.8
W	.0	.0	.0	.1	.6	.2	.0	.0	.0	.0	.0	.0	1.8
NW	*	.0	.0	1.9	5.1	2.9	.3	.0	.1	.0	.0	.0	5.8
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
VAR	.0	.0	.0	.1	.1	.0	.1	.0	.0	.0	.0	.0	1.3
TOT OBS	5	1	14	94	215	175	21	2	4	3	355	929	100.0
TOT PCT	.5	.1	1.5	10.1	23.1	18.8	2.3	.2	.4	.3	42.5	100.0	

PERIOD: (PRIMARY) 1935-1970
(OVER-ALL) 1864-1970

DECEMBER

AREA 0009 AMAMI O SHIMA
27.9N 129.4E

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	VSBY (NH) = OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.7	.8	.8	.8	.8	.8	.8	.8
= OR >5000	.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0
= OR >3500	2.7	3.1	3.1	3.1	3.1	3.1	3.1	3.1
= OR >2000	15.7	20.7	21.7	21.8	21.9	21.9	21.9	21.9
= OR >1000	30.2	42.1	44.6	44.8	45.1	45.1	45.2	45.2
= OR >600	35.1	50.7	54.5	54.8	55.2	55.2	55.3	55.3
= OR >300	35.4	51.6	56.0	56.4	56.7	56.7	56.8	56.8
= OR >150	35.6	51.8	56.2	56.6	56.9	56.9	57.0	57.0
= OR > 0	35.6	51.9	56.6	57.0	57.3	57.3	57.4	57.4
TOTAL	328	478	521	525	528	528	529	529

TOTAL NUMBER OF OBS: 921

PCT FREQ NH <5/8: 42.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
2.0	6.5	12.0	11.1	10.4	9.1	10.4	13.5	24.4	.5	962	962

PERIOD: (PRIMARY) 1935-1970
(OVER-ALL) 1864-1970

DECEMBER

AREA 0009 AMAMI D. SHIMA
27.9N 129.4E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NH)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
PCP	.0	.0	.0	.0	.0	.0	*	.1	.0	.0	.1	
ND PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT %	.0	.0	.0	.0	.0	.0	*	.1	.0	.0	.1	
PCP	.1	.2	.1	.0	.1	.0	.0	.0	.0	.0	.4	
ND PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT %	.1	.2	.1	.0	.1	.0	.0	.0	.0	.0	.4	
PCP	.1	.1	.2	.2	.0	.0	.0	*	.0	.0	.8	
ND PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
TOT %	.1	.1	.2	.2	.1	.0	.0	*	.0	.0	.9	
PCP	.5	.7	.3	.3	.2	.0	.1	.1	.0	.0	2.3	
ND PCP	1.1	.6	.1	*	.1	.0	.1	.2	.0	.0	2.2	
TOT %	1.6	1.3	.5	.3	.3	.0	.1	.3	.0	.0	4.5	
PCP	1.4	1.2	.5	.4	.2	.3	.0	.4	.0	.1	4.5	
ND PCP	6.7	2.6	1.6	.8	.8	.2	.3	4.0	.0	.1	17.2	
TOT %	8.1	3.8	2.1	1.2	1.0	.5	.3	4.5	.0	.3	21.7	
PCP	.4	.5	.3	.3	.1	.1	*	.4	.0	.0	2.0	
ND PCP	22.0	15.7	9.1	3.2	3.3	1.4	2.6	12.1	.0	.9	70.4	
TOT %	22.4	16.2	9.4	3.4	3.3	1.5	2.7	12.5	.0	.9	72.4	
TOT OBS												1518
TOT PCT	32.4	21.6	12.2	5.2	4.8	2.0	3.1	17.4	.0	1.2	100.0	

PERIOD: (PRIMARY) 1935-1970
(OVER-ALL) 1864-1970

DECEMBER

AREA 0009 AMAHI D SHIMA
27.9N 129.4E

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

WSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
	11-21	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.1	.1	.1	.0	.0	.0	.1	.0	.0	.0	.0	.3
	22+	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.2
	TOT %	.1	.2	.1	.0	.1	.0	.1	.0	.0	.0	.0	.5
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.4	.0	.0	.0	.0	.1	.1	.1	.0	.0	.0	.7
	11-21	.1	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.6
	22+	.1	.1	.1	.2	.1	.0	.0	.0	.0	.0	.0	.6
	TOT %	.6	.2	.4	.3	.1	.1	.1	.2	.0	.0	.0	2.0
2<5	0-3	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.1
	4-10	.8	.5	.1	.2	.1	.1	.1	.2	.0	.0	.0	1.9
	11-21	1.0	.6	.5	.3	.2	.0	.1	.4	.0	.0	.0	3.0
	22+	.5	.5	.0	.0	.1	.0	.0	.1	.0	.0	.0	1.2
	TOT %	2.3	1.6	.6	.5	.4	.1	.2	.7	.0	.0	.0	6.3
5<10	0-3	.0	.0	.1	.0	.0	.0	.0	.3	.0	.2	.8	.8
	4-10	1.2	1.1	.6	.5	.5	.2	.1	.5	.0	.0	4.8	4.8
	11-21	3.9	1.8	1.0	.6	.4	.2	.1	2.5	.0	.0	10.5	10.5
	22+	2.5	.7	.2	.1	.1	.1	.1	1.0	.0	.0	4.7	4.7
	TOT %	7.7	3.6	1.9	1.2	1.0	.5	.3	4.3	.0	.2	20.8	20.8
10+	0-3	.4	.3	.3	.3	.4	.2	.0	.2	.0	1.0	3.0	3.0
	4-10	5.1	6.3	5.1	2.1	1.8	.8	1.4	3.2	.0	.0	25.8	25.8
	11-21	12.5	8.3	3.4	.9	.9	.4	.9	5.8	.0	.0	33.2	33.2
	22+	3.6	.7	.2	.1	.1	.0	.2	3.0	.0	.0	7.9	7.9
	TOT %	21.6	15.6	9.0	3.4	3.2	1.4	2.5	12.1	.0	1.0	69.9	69.9
TOT OBS		1609											
TOT PCT		32.4	21.3	12.0	5.4	4.8	2.1	3.2	17.6	.0	1.2	100.0	

DECEMBER

PERIOD: (PRIMARY) 1935-1970
(OVER-ALL) 1864-1970

AREA 0009 ANAHI O SHIMA
27.9N 129.4E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	5000 6499	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.9	.0	1.4	9.2	22.5	22.0	3.7	.9	.5	.5	61.5	38.5	218
06009	.4	.0	1.6	9.4	22.8	18.5	2.4	.0	.0	.0	55.1	44.9	254
12015	.4	.8	2.1	11.8	22.3	16.0	2.1	.0	.4	.4	56.3	43.7	238
18021	.4	.0	.9	9.6	24.0	18.3	.9	.0	.9	.4	55.5	44.5	229
TOT	5	2	14	94	215	175	21	2	4	3	535	404	939
PCT	.5	.2	1.5	10.0	22.9	18.6	2.2	.2	.4	.3	57.0	43.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.5	.5	3.7	15.7	79.6	216
06009	.0	.8	.4	5.2	16.1	77.4	248
12015	.0	.0	.9	5.6	21.9	71.7	233
18021	.4	.4	.0	5.7	28.9	64.5	228
TOT	1	4	4	47	191	678	925
PCT	.1	.4	.4	5.1	20.6	73.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.5	2.3	14.8	46.8	38.4	216
06009	.8	3.2	14.9	41.5	43.5	248
12015	.4	3.4	18.5	38.6	42.9	233
18021	1.8	3.1	15.4	41.2	43.4	228
TOT	8	28	147	388	390	925
PCT	.9	3.0	15.9	41.9	42.2	100.0

DECEMBER

PERIOD: (PRIMARY) 1935-1970
(OVER-ALL) 1864-1970

AREA 0009 ANAMI O SHIMA
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TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP		TOTAL						
TEMP F	PCT	0-29	30-39	40-49	50-59	60-69	70-79	80-89
75/79	.0	.0	.0	.0	.1	.0	.4	.3
70/74	.0	.0	.0	.3	2.5	5.2	8.2	4.1
65/69	.0	.0	.0	1.3	6.6	9.0	8.4	7.9
60/64	.0	.0	.0	1.3	6.1	7.9	6.7	3.3
55/59	.0	.0	.0	.1	1.9	1.7	2.8	1.2
50/54	.0	.0	.0	.0	.1	.4	.4	.1
TOTAL	0	0	23	130	181	201	127	86
PCT	.0	.0	3.1	17.4	24.2	26.9	17.0	11.5

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP		TOTAL							
TEMP F	PCT	N	NE	E	SE	S	SW	W	NW
75/79	.8	.1	.0	.0	.3	.1	.0	.1	.2
70/74	22.1	4.0	5.5	3.1	2.2	2.8	1.1	1.5	1.2
65/69	38.6	9.6	10.8	6.2	2.4	1.8	1.1	.7	5.3
60/64	28.5	12.2	6.3	2.7	.5	.2	.3	.6	5.4
55/59	18.8	4.0	1.6	.1	.0	.1	.1	.2	2.4
50/54	1.2	.6	.0	.0	.0	.0	.0	.1	.5
TOTAL	100.0	30.5	24.2	12.1	5.5	5.0	2.7	3.3	15.1
PCT									

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR									
HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	81	77	73	66	58	55	52	65.7	412
06009	80	77	73	66	57	54	52	65.1	414
12015	78	77	72	65	57	52	50	65.0	497
18021	74	73	72	64	55	53	50	64.2	372
TOT	81	77	73	65	57	54	50	65.3	1695

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR									
HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN
00003	.0	23.4	20.6	20.6	20.6	20.6	20.0	9.7	71
06009	.0	24.5	25.0	25.0	25.0	26.0	14.6	9.9	70
12015	.0	20.8	27.2	24.8	24.8	24.8	16.3	10.9	71
18021	.0	12.8	23.3	31.1	31.1	31.1	17.2	15.6	74
TOT	0	153	181	202	202	202	127	86	72
TOTAL OBS									

PERIOD (PRIMARY) 1935-1970
(OVER-ALL) 1864-1970

DECEMBER

AREA 0009 AMAHI O SHIMA
27.9N 129.4E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49	53	57	61	65	69	73	77	81	84	TOT FOG	WD FOG
11/13	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	1	.0
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	1	.0
7/8	.0	.0	.0	.0	.0	.1	.0	.3	.0	.0	5	.0
6	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	1	.0
5	.0	.0	.0	.1	.1	.2	.0	.2	.0	.0	8	.0
4	.0	.0	.0	.0	.1	.3	.3	.1	.0	.0	12	.0
3	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	3	.0
2	.0	.0	.0	.1	.1	.3	.4	.1	.0	.0	16	.0
1	.0	.0	.0	.0	.2	.4	.4	.0	.0	.0	15	.0
0	.0	.0	.1	.3	1.0	2.4	1.6	.0	.0	.0	77	.0
-1	.0	.0	.1	.0	.1	1.3	.6	.0	.0	.0	29	.0
-2	.0	.0	.1	1.2	2.1	4.5	.5	.0	.0	.0	120	.1
-3	.0	.0	.0	.2	.8	2.0	.3	.0	.0	.0	48	.0
-4	.0	.1	.2	2.2	4.1	3.0	.1	.1	.0	.0	140	.1
-5	.0	.2	.2	4.5	4.3	2.3	.1	.0	.0	.0	168	.0
-6	.0	.0	.0	.5	2.8	1.4	.0	.0	.0	.0	67	.0
-7/-8	.0	.1	1.3	8.9	6.8	1.0	.0	.0	.0	.0	259	.0
-9/-10	.1	.6	1.3	7.2	3.5	.3	.0	.0	.0	.0	187	.0
-11/-13	.0	.8	3.6	6.4	1.7	.0	.0	.0	.0	.0	180	.0
-14/-16	.1	.8	2.4	1.3	.1	.0	.0	.0	.0	.0	69	.0
-17/-19	.2	.6	.8	.1	.1	.0	.0	.0	.0	.0	24	.0
-20/-22	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	4	.0
TOTAL	9	46	144	472	403	280	65	14	1	1	1434	2
PCT	.6	3.2	10.0	32.9	28.1	19.5	4.5	1.0	.1	.1	100.0	.1
												99.9

DECEMBER
TABLE 18

AREA 0009 ANANI O SHINA
27.9N 129.4E

PERIOD: (OVER-ALL) 1963-1970

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.6	.0	.0	.0	.0	.9	.0	.6	.0	.0	.0	.0	.6
1-2	.2	2.2	2.6	.0	.0	.0	5.0	.0	5.6	2.2	.0	.0	.0	7.8
3-4	.0	1.6	6.7	.4	.0	.0	3.7	.0	1.2	7.2	1.0	.0	.0	9.3
5-6	.0	1.7	5.1	1.5	.2	.0	8.5	.0	.9	1.8	.5	.0	.0	3.2
7	.0	.0	1.9	1.1	.2	.0	3.0	.0	.0	1.4	.3	.0	.0	1.7
8-9	.0	.0	1.9	1.2	.2	.0	3.4	.0	.0	.4	.8	.2	.0	1.3
10-11	.0	.0	.2	.2	.4	.0	.9	.0	.0	.0	.2	.1	.0	.3
12	.0	.0	.0	1.0	.0	.0	1.0	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.5	.2	.0	.6	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	6.1	18.5	6.1	1.1	.0	32.2	.0	8.3	12.8	2.9	.3	.0	24.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6	.0	.5	.0	.0	.0	.0	.5
1-2	.2	1.4	1.5	.0	.0	.0	3.3	.0	1.2	.2	.0	.0	.0	1.3
3-4	.0	1.4	2.5	.0	.0	.0	3.9	.0	.7	.9	.0	.0	.0	1.6
5-6	.0	1.1	.8	.2	.0	.0	2.2	.0	.1	.7	.0	.0	.0	.8
7	.0	.2	.8	.6	.0	.0	1.6	.0	.0	.2	.2	.0	.0	.5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.5
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	5.0	5.6	.9	.0	.0	11.7	.0	2.4	2.5	.2	.0	.0	5.2

PERIOD: (OVER-ALL) 1963-1970
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 TABLE 18
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PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (PT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.5
1-2	.2	1.2	.4	.0	.0	.0	1.9	.2	.2	.5	.0	.0	.0	.9
3-4	.0	.4	.8	.0	.0	.0	1.2	.0	.1	.1	.0	.0	.0	.1
5-6	.0	.0	.0	.0	.0	.0	1.3	.0	.0	.2	.0	.0	.0	.3
7	.0	.0	.6	.7	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.6	1.8	.9	.0	.0	4.6	.2	.8	.8	.0	.0	.0	1.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2	.0	.8	.0	.0	.0	.0	.8
1-2	.0	.4	.5	.0	.0	.0	.5	.0	1.3	1.1	.0	.0	.0	2.5
3-4	.0	.9	.4	.0	.0	.0	1.3	.0	.9	2.3	.2	.0	.0	3.5
5-6	.0	.6	.4	.2	.0	.0	1.3	.0	.5	2.0	1.3	.0	.0	3.8
7	.0	.0	.2	.0	.0	.0	.2	.0	.2	.9	.5	.0	.0	1.7
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.4	.0	.0	.9
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.5	.0	.9
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.1	.3	.0	.4
13-19	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.5	.3	.0	.8
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.1	1.5	.2	.0	.0	3.9	.0	3.9	7.4	3.0	.8	.0	15.1

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AREA 0009 ANANI D SHIMA
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PERIOD: (OVER-ALL) 1963-1970

TABLE 18 (CONT)

HGV	WIND SPEED (KTS) VS SEA HEIGHT (FT)							PCT	TGT OBS
	0-3	4-10	11-21	22-33	34-47	48+			
<1	1.9	3.7	.0	.0	.0	.0	.0	5.6	
1-2	.9	12.8	8.9	.0	.0	.0	.0	23.6	
3-4	.0	7.0	20.8	1.6	.0	.0	.0	29.4	
5-6	.0	4.9	11.0	3.7	.2	.0	.0	19.9	
7	.0	.5	6.1	3.5	.0	.0	.0	10.0	
8-9	.0	.0	5.3	2.6	.5	.0	.0	6.3	
10-11	.0	.2	.5	.5	.0	.0	.0	2.1	
12	.0	.0	.2	1.2	.0	.0	.0	1.4	
13-16	.0	.0	.0	.9	.5	.0	.0	2.4	
17-19	.0	.0	.0	.2	.0	.0	.0	.2	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.8	30.1	50.7	14.3	2.3	.0	100.0		428

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.6	13.1	20.5	8.5	1.9	1.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	319
6-7	.0	1.6	5.6	9.3	5.0	1.5	1.4	.1	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	173
8-9	.0	.1	1.3	2.6	5.7	3.2	1.7	.9	.4	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	39
10-11	.0	.6	.0	.9	1.1	1.4	.9	.3	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	41
12-13	.0	.0	.0	.0	.3	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10
>13	.0	.0	.0	.1	.0	.0	.3	.0	.0	.1	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	7
UNDET	1.6	1.0	1.6	.7	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	38
TOTAL	22	114	204	154	87	35	22	12	10	2	2	2	1	1	0	0	0	0	0	0	697
PCT	3.2	16.4	29.3	22.1	12.5	7.9	4.0	1.7	1.4	.3	.3	.3	.3	.3	.0	.0	.0	.0	.0	.0	100.0

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PERIOD: (PRIMARY) 1935-1970
(OVER-ALL) 1857-1970AREA 0009 AMAMI U.S.HIMA
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TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHHR	DRZL	PRECIPITATION TYPE				HAIL	PCT FREQ PCPN AT OB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS
				PCPN	FRZG	SNOW	OTHER FKZN PCPN					FGG WD	SMOKE HAZE	DUST BLWG SNOW	NO NEA	
N	1.2	.5	.4	.0	.0	.0	.0	.0	1.7		*	.1	.1	*	17.3	
NE	1.1	.2	.4	.0	.0	.0	.0	.0	1.6		*	.1	.1	*	14.6	
E	1.1	.2	.4	.0	.0	.0	.0	.0	1.7		*	.1	.1	*	13.3	
SE	.8	.1	.3	*	*	.0	.0	.0	1.2		.1	.1	*	.0	10.2	
S	.7	.2	.2	*	*	.0	.0	.0	1.2		.1	.1	*	.0	9.6	
SW	.7	.2	.1	*	*	.0	.0	.0	1.0		.1	.1	*	*	7.5	
W	.4	.1	.1	.0	.0	.0	.0	.0	.6		.1	*	*	*	4.4	
NW	.6	.2	.3	.0	.0	.0	.0	.0	1.0		.0	*	*	.0	12.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0	*	.0	.0	
CALM	*	*	*	.0	.0	.0	.0	.0	*		.0	.0	*	.0	.0	
TOT OBS	1534	365	523	6	0	0	0	3	9.9	2320	116	121	121	7	20451	2323
TOT PCT	6.6	1.6	2.2	*	.0	.0	.0	*			.5	.5	.5	*	88.6	

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHHR	DRZL	PRECIPITATION TYPE				HAIL	PCT FREQ PCPN AT OB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS
				PCPN	FRZG	SNOW	OTHER FKZN PCPN					FGG WD	SMOKE HAZE	DUST BLWG SNOW	NO NEA	
0003	6.1	1.5	2.0	*	.0	.0	.0	.0	9.2		.1	.6	.8	*	39.3	
0609	6.0	1.5	2.2	*	.0	.0	.0	.0	9.2		.1	.3	.5	*	89.9	
1215	6.9	1.5	2.2	*	.0	.0	.0	*	10.2		1.0	.5	.4	*	88.1	
1821	7.2	1.9	2.4	*	.0	.0	.0	.0	11.1	2355	.0	.8	.3	*	87.0	23449
TOT	1541	372	524	6	0	0	0	3	9.9		116	121	123	7	20752	
PCT	6.5	1.6	2.2	*	.0	.0	.0	*			.5	.5	.5	*	88.6	

PERIOD: (PRIMARY) 1935-1970
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TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)					
	0-3	4-10	11-21	22-33	34-47	00	03	06	09	12					15	18	21			
N	.7	6.1	9.4	3.0	.2	*		19.4	13.1	18.6	19.5	19.1	22.6	18.6	18.7	17.3	22.2			
NE	.8	6.7	7.3	1.5	.1	*		16.4	12.1	16.3	16.3	16.9	15.4	17.6	16.0	14.9	17.4			
E	.8	6.7	6.3	1.1	*	*		14.9	11.9	15.2	14.1	14.6	14.3	15.1	16.5	14.4	14.9			
SE	.6	5.7	4.7	.7	*	*		11.7	11.5	10.7	11.9	10.3	10.7	11.4	13.7	12.1	12.2			
S	.7	5.0	4.4	.7	.1	*		10.9	11.8	11.8	9.8	10.9	10.4	10.3	11.7	11.9	9.6			
SW	.5	3.8	3.8	.7	.1	*		8.8	11.3	9.6	8.5	10.3	8.3	8.7	7.9	9.1	7.7			
W	.4	2.3	2.0	.4	.1	*		5.2	12.1	5.8	5.4	5.3	5.2	5.8	4.1	5.8	4.6			
NW	.5	3.8	4.8	2.2	.3	*		11.5	13.4	10.9	13.5	11.3	12.3	11.0	10.6	12.0	10.4			
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
CALM	1.3							1.3	.0	1.0	1.0	1.3	.9	1.6	.8	2.4	1.0			
TOT OBS	1537	10227	10802	2569	239	13	25387		12.6	3399	3372	3211	2626	3736	3464	3256	2323			
TOT PCT	5.0	40.1	42.6	10.3	1.0	.1		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0			

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-6	7-16	17-27	28-40	41+				00	03	06	09	12	15	18	21
N	2.7	9.4	6.3	1.0	*		19.4	13.1	19.0	19.0	20.7	18.6	19.3			
NE	3.2	9.0	3.6	.5	*		16.4	12.1	16.3	16.3	16.2	16.8	15.9			
E	3.2	8.4	3.0	.3	*		14.9	11.9	14.7	14.7	14.4	15.8	14.6			
SE	2.8	6.5	2.1	.2	*		11.7	11.5	11.3	11.3	10.5	12.5	12.2			
S	2.5	6.1	2.0	.2	*		10.9	11.8	10.8	10.8	10.7	11.0	11.0			
SW	1.8	4.9	1.9	.2	*		8.8	11.3	9.1	9.1	9.4	8.3	8.5			
W	1.4	2.6	1.0	.2	*		5.2	12.1	5.6	5.6	5.2	4.9	5.3			
NW	1.8	5.2	3.4	.9	.1		11.5	13.4	12.2	12.2	11.7	10.8	11.4			
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0			
CALM	1.3						1.3	.0	1.0	1.0	1.1	1.2	1.8			
TOT OBS	5327	13276	5847	874	63	25387		12.6	6771	5837	7200	5579				
TOT PCT	20.8	52.2	23.3	3.5	.3		100.0		100.0	100.0	100.0	100.0	100.0			

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)											
HOUR	CALM	1-3			4-10			WIND SPEED (KNOTS)			PCT FREQ
		1-3	4-10	11-21	22-33	34-47	48+	MEAN			
0003	1.0	5.3	38.5	44.0	10.2	1.0	.1	12.7	100.0		
0609	1.1	4.3	38.4	44.0	11.1	1.0	.1	13.0	100.0		
1215	1.2	4.8	42.7	40.9	9.3	1.1	*	12.3	100.0		
1821	1.8	4.2	40.6	41.6	10.9	.8	.1	12.6	100.0		
TOT	321	1216	10227	10802	2569	239	13	12.6			
PCT	1.3	4.7	40.1	42.6	10.3	1.0	.1		100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION									
WIND DIR	0-2	3-4	5-7	8	C	TOTAL		MEAN	
						OBSCD	OBS	CLOUD COVER	CLOUD COVER
N	3.0	3.0	6.3	5.8				5.4	
NE	3.5	3.0	5.0	4.5				5.1	
E	3.2	2.8	4.6	4.2				5.2	
SE	2.5	2.2	3.3	2.7				5.1	
S	2.5	2.2	4.0	3.1				5.1	
SW	1.9	1.7	3.3	2.8				5.2	
W	1.0	1.2	2.0	1.9				5.3	
NW	1.6	1.7	4.2	3.6				5.4	
VAR	.0	.0	.0	.0				.0	
CALM	.7	.3	.3	.2				3.7	
TOT OBS	2588	2316	4174	3617				5.2	
TOT PCT	20.1	18.0	33.0	28.9					

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH > 4/8 AND OCCURRENCE OF NH < 5/8 BY WIND DIRECTION														
WIND DIR	0-2	3-4	5-7	8	C	TOTAL		MEAN		AND OCCURRENCE OF NH < 5/8				
						OBSCD	OBS	CLOUD COVER	CLOUD COVER	000	150	300	600	1000
N	3.0	3.0	6.3	5.8				5.4		.1	.1	.3	1.7	4.2
NE	3.5	3.0	5.0	4.5				5.1		.1	*	.3	1.1	2.9
E	3.2	2.8	4.6	4.2				5.2		.1	*	.3	1.2	2.5
SE	2.5	2.2	3.3	2.7				5.1		.1	.1	.1	.8	1.7
S	2.5	2.2	4.0	3.1				5.1		.1	.1	.3	1.0	1.8
SW	1.9	1.7	3.3	2.8				5.2		.1	*	.2	.7	1.4
W	1.0	1.2	2.0	1.9				5.3		.1	*	.2	.5	1.3
NW	1.6	1.7	4.2	3.6				5.4		.1	.1	.2	1.1	2.8
VAR	.0	.0	.0	.0				.0		.0	.0	.0	.0	.0
CALM	.7	.3	.3	.2				3.7		.0	.0	*	*	.1
TOT OBS	2588	2316	4174	3617				5.2		87	48	244	1021	2342
TOT PCT	20.1	18.0	33.0	28.9						.7	.4	1.9	8.1	18.7

PERIOD: (PRIMARY) 1935-1970
(OVER-ALL) 1957-1970

ANNUAL

AREA 0009 AMAMI O SHIMA
27.8N 129.4E

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH > 4/8) AND VSBY (NM)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >5/16	= OR >0
= OR >6500	.7	.9	.9	.9	.9	.9	.9	.9
= OR >5000	1.1	1.4	1.5	1.5	1.5	1.5	1.5	1.5
= OR >3500	2.7	3.6	3.7	3.7	3.7	3.7	3.7	3.7
= OR >2000	11.5	15.5	16.2	16.2	16.2	16.2	16.2	16.2
= OR >1000	22.3	32.4	34.6	34.7	34.8	34.9	34.9	34.9
= OR >600	26.0	39.0	42.3	42.7	42.9	43.0	43.0	43.0
= OR >300	26.5	40.2	44.0	44.5	44.8	44.8	44.8	44.9
= OR >150	26.6	40.4	44.4	44.9	45.2	45.2	45.2	45.2
= OR >0	26.3	40.8	44.8	45.5	45.8	45.9	45.9	45.9
TOTAL	3331	5082	5593	5582	5714	5725	5730	5732

TOTAL NUMBER OF OBS: 12668

PCT FREQ NH < 5/8: 34.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (HEIGHTS)

	0	1	2	3	4	5	6	7	8	9	TOTAL OBS
4.9	10.3	17.3	12.2	9.2	8.6	10.0	8.3	10.3	11	13433	

PERIOD: (PRIMARY: 1935-1970
(OVER-ALL: 1857-1970

ANNUAL

AREA 0009 4HANE O SHINA
27.8N 125.4E

TABLE 8

PERCENT FREQS OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VELOCITY

WIND (NH)	N	NE	E	SE	S	SW	W	NW	W-K	CALM	PCT	TOTAL FREQ
PCP	*	*	*	*	*	*	*	*	*	*	*	12
ND PCP	.0	*	*	*	*	*	*	*	*	.0	*	.1
TOT %	*	*	*	*	*	*	*	*	*	.0	*	13
1/2<1	PCP	.1	.1	*	.1	*	*	*	.0	.0	*	4
ND PCP	*	*	*	*	*	*	.0	*	.0	*	*	.1
TOT %	.1	.1	.1	*	.1	*	*	*	.0	*	*	.5
1<2	PCP	.1	.2	.1	.1	.1	*	.1	.0	.0	*	.2
ND PCP	*	*	*	*	*	*	*	.1	.0	*	*	.2
TOT %	.2	.2	.2	.1	.1	.1	.1	.1	.0	*	*	1.1
2<5	PCP	.4	.4	.3	.3	.2	.2	.2	.0	*	*	2.5
ND PCP	.5	.4	.3	.3	.2	.3	.1	.3	.0	*	*	2.5
TOT %	.8	.8	.7	.5	.5	.5	.3	.6	.0	*	*	5.0
5<10	PCP	.7	.6	.5	.5	.4	.2	.4	.0	*	*	4.0
ND PCP	3.6	2.8	2.5	2.1	2.1	1.8	1.2	2.3	.0	.2	*	18.6
TOT %	4.4	3.4	3.1	2.6	2.6	2.2	1.4	2.7	.0	.2	*	22.6
10+	PCP	.3	.3	.2	.2	.2	.1	.2	.0	*	*	2.0
ND PCP	13.4	11.5	10.6	8.0	7.4	5.6	3.4	7.6	.0	1.0	*	68.5
TOT %	13.7	11.8	11.0	8.2	7.6	5.8	3.5	7.9	.0	1.0	*	70.5
TOT OBS	19.2	16.3	15.1	11.5	10.9	8.8	5.3	11.5	.0	.2	*	232.9
TOT PCT												100.0

PERIOD: (SUMMARY) 1925-1970
(OVER-ALL) 1957-1970

ANNUAL

AREA: US09 ANAMI O SHIMA
27.8N 129.4E

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

WIND DIR	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT OBS
<1/2	0-3	*	*	*	.0	.0	.0	*	.0	.0	*	*
	4-10	*	*	*	*	*	*	*	*	.0	*	.2
	11-21	.1	*	*	.0	*	*	*	*	.0	*	.2
	TOT %	.1	.1	.1	.0	.1	.1	.1	.1	.0	.1	.1
1/2<1	0-3	*	*	*	*	*	.0	*	*	.0	*	*
	4-10	*	*	*	*	*	*	*	*	.0	*	.2
	11-21	.1	.1	*	*	*	*	*	*	.0	*	.3
	TOT %	.1	.1	.1	.1	.1	.1	.0	*	.0	*	.6
1<2	0-3	*	*	*	.0	*	*	*	*	.0	*	.1
	4-10	.2	.1	.1	.1	.1	.1	*	.1	.0	*	.7
	11-21	.1	.1	.1	.1	.1	.1	*	.1	.0	*	.4
	TOT %	.4	.3	.3	.2	.2	.2	.1	.2	.0	*	1.8
2<5	0-3	*	*	*	*	*	*	*	*	.0	*	.2
	4-10	.4	.3	.2	.2	.2	.2	.2	.3	.0	*	2.0
	11-21	.5	.4	.4	.4	.4	.3	.1	.3	.0	*	2.8
	TOT %	1.1	1.0	.9	.7	.8	.7	.4	.7	.0	*	6.3
5<10	0-3	.1	.1	.1	.1	.1	.1	.1	.1	.0	.2	1.0
	4-10	1.0	1.1	1.1	1.0	1.0	.8	.5	.7	.0	*	7.2
	11-21	2.2	1.6	1.5	1.2	1.1	1.0	.6	1.2	.0	*	10.4
	TOT %	4.3	3.3	3.0	2.5	2.3	2.2	1.3	2.8	.0	.2	22.1
10+	0-3	.5	.5	.5	.5	.5	.3	.2	.3	.0	1.0	4.4
	4-10	4.4	5.1	5.3	4.3	3.7	2.7	1.7	2.7	.0	*	30.0
	11-21	6.6	5.2	4.3	3.0	2.8	2.3	1.2	3.2	.0	*	28.6
	TOT %	13.4	11.6	10.7	8.0	7.3	5.7	3.3	7.7	.0	1.0	68.8
TOT OBS												24245
TOT PCT												100.0

ANNUAL

PERIOD: (PRIMARY) 1935-1970
(OVER-ALL) 1857-1970AREA 0009 AMAHI O SHIMA
27.8N 129.4E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.7	.5	1.7	8.1	18.9	11.9	2.7	.9	.4	.3	46.0	3253
06009	.5	.3	2.1	8.0	18.9	12.4	2.3	.3	.5	.5	45.7	3296
12015	.6	.5	1.8	8.0	16.3	12.2	2.0	.5	.3	.5	42.7	3364
18021	.9	.2	1.9	7.6	18.7	12.2	1.9	.6	.4	.5	44.8	3218
TOT	88	49	244	1026	2345	1564	284	75	51	59	5785	7346
PCT	.7	.4	1.9	7.9	18.2	12.2	2.2	.6	.4	.4	44.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.3	.4	.6	4.2	18.9	75.6	3142
06009	.2	.4	.9	4.8	19.7	74.0	3188
12015	.2	.1	.8	4.7	23.8	70.3	3255
18021	.3	.3	.7	5.0	24.8	69.0	3122
TOT	30	38	98	592	2759	9190	12707
PCT	.2	.3	.8	4.7	21.8	72.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.9	3.5	14.4	33.4	52.2	3142
06009	.9	3.6	14.5	33.4	52.2	3188
12015	.9	3.3	14.8	29.8	55.5	3255
18021	1.5	3.9	14.1	32.6	53.3	3122
TOT	133	455	1821	4029	6857	12707
PCT	1.1	3.6	14.4	32.2	53.3	100.0

ANNUAL

PERIOD: (PRIMARY) 1935-1970
(OVER-ALL) 1857-1970

AREA 0009 AHAMI O SHIMA
27.8N 129.4E

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	.0	.0	.0	.0	.0	3	*
90/94	.0	.0	.0	.1	.2	.3	.1	*	79	.6
85/89	.0	.0	*	.1	.5	2.9	2.0	.4	727	5.8
80/84	.0	*	.1	.2	1.0	4.6	11.5	5.4	2860	22.8
75/79	.0	.0	.1	.9	1.9	3.3	4.4	5.0	2033	15.7
70/74	.0	.0	.2	1.7	3.8	4.5	5.2	4.8	2622	20.1
65/69	.0	.0	.3	2.2	3.6	3.8	3.5	1.5	1904	15.9
60/64	.0	.0	.3	2.3	3.4	2.7	1.5	1.2	1194	11.6
55/59	.0	.0	.1	1.0	2.0	1.7	.8	.4	582	6.1
50/54	.0	.0	.0	.2	.3	.4	.2	.1	115	1.2
45/49	.0	.0	.0	.0	*	*	*	*	10	.1
TOTAL	.0	.4	1.4	9.5	19.7	28.9	36.0	24.9	12129	100.0
PCT	.0	*	1.4	8.6	16.7	24.2	29.2	19.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
95/99	.0	.0	*	.0	.0	*	.0	.0	.0	.0
90/94	.4	.5	1.0	1.1	1.0	1.0	.4	.3	.0	.1
85/89	1.4	2.6	4.0	3.9	4.1	3.9	1.5	.8	.0	.5
80/84	2.3	2.9	2.7	1.6	2.1	1.9	.9	1.0	.0	.2
75/79	3.4	4.1	3.6	2.5	2.1	1.4	1.0	1.8	.0	.3
70/74	3.4	3.2	2.4	1.6	1.2	.7	.8	2.2	.0	.2
65/69	3.4	2.2	1.2	.6	.2	.2	.4	2.3	.0	.2
60/64	4.3	.7	.2	.4	*	*	.3	1.8	.0	.1
55/59	2.8	.1	.2	.0	*	*	.1	.6	.0	.0
50/54	.5	.0	.0	.0	*	*	.0	*	.0	.0
45/49	*	.0	.0	.0	*	*	.0	*	.0	.0
TOTAL	18.7	16.5	15.1	11.4	11.1	9.3	5.4	10.9	.0	1.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0003	94	82	80	73	66	63	45	73.2	6617
0609	97	84	80	73	66	62	39	73.5	5801
1215	94	81	78	72	65	62	39	71.7	7156
1821	90	79	77	71	65	61	41	71.2	5562
TOT	97	82	79	72	66	62	39	72.4	25136

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0003	.0	10.8	15.3	24.9	28.7	20.3	78	3267		
0609	.0	13.5	19.1	27.9	26.2	13.3	75	2902		
1215	.0	8.8	16.5	21.8	30.6	22.2	79	3129		
1821	.0	7.2	15.9	21.9	31.3	23.8	80	2886		
TOT	0	1164	1980	2899	3632	2509	78	12184		

PERIOD: (PRIMARY) 1935-1970
(OVER-ALL) 1857-1970

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	37	40	41	44	45	48	49	52	55	58	61	64	67	70	73	76	79	82	85	88	91	94	97	100	W FOG	W FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
-1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
-5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
-7/-8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
-9/-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
-11/-12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
-13/-14	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
-15/-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
-17/-18	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
-19/-20	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
-21/-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
-23/-24	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
-25/-26	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
-27/-28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
-29/-30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	2	*	4	*	41	.2	.8	3.2	6.0	12.2	25.1	52.1	122.2	222.2	322.1	435.3	567.9	720.9	894.5	1100.0	1300.0	1500.0	1700.0	1900.0	2100.0	2300.0
PCT	2	*	4	*	41	.2	.8	3.2	6.0	12.2	25.1	52.1	122.2	222.1	435.3	567.9	720.9	894.5	1100.0	1300.0	1500.0	1700.0	1900.0	2100.0	2300.0	2500.0

PERIOD: (OVER-ALL) 1952-1970 ANNUAL ARFA 0039 AMAHI O SHIMA
27.8N 129.4E

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N										NE										PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.6	*	.0	.0	.0	.8	.3	.6	*	.0	.0	.0	.9	.3	.6	*	.0	.0	.0	.0
1-2	.1	2.0	1.4	.0	.0	.0	3.5	.2	2.7	1.6	.0	.0	.0	4.4	.0	2.7	1.6	.0	.0	.0	4.4
3-4	.1	1.4	3.4	.3	.0	.0	5.2	.0	1.7	3.2	.4	.0	.0	5.3	.0	1.7	3.2	.4	.0	.0	5.3
5-6	.1	.7	2.6	.6	*	.0	4.0	*	.4	1.7	.4	.0	.0	2.5	.0	.4	1.7	.4	.0	.0	2.5
7	.0	.3	1.3	.6	*	.0	3.1	*	.1	.9	.5	.1	.0	1.7	.0	.1	.9	.5	.1	.0	1.7
8-9	.0	.3	.7	.5	*	.0	2.4	*	.1	.3	.2	.1	.0	.5	.0	.1	.3	.2	.1	.0	.5
10-11	.0	.0	.1	.3	.1	.0	.4	.0	.0	.0	.1	.1	.0	.2	.0	.0	.0	.1	.1	.0	.2
12	.0	.0	*	.1	*	.0	.2	.0	.0	*	.1	*	.0	.1	.0	.0	*	.1	*	.0	.1
13-16	.0	.0	*	.1	*	.0	.2	.0	.0	.1	*	*	.0	.1	.0	.0	.1	*	*	.0	.1
17-19	.0	.0	.0	*	.1	.0	.1	.0	.0	.0	.0	*	.0	*	.0	.0	.0	*	*	.0	*
20-22	.0	.0	.0	*	.0	.0	*	.0	.0	.0	.0	*	.0	*	.0	.0	.0	*	*	.0	*
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	*	.0	.0	.0	*	*	.0	*
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	4.8	9.2	2.5	.3	.0	18.0	.5	5.6	7.8	1.7	.3	.0	13.9	.5	5.6	7.8	1.7	.3	.0	13.9

HGT	E										SE										PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.5	*	.0	.0	.0	.7	.1	.6	*	.0	.0	.0	.8	.1	.6	*	.0	.0	.0	.0
1-2	.2	2.6	1.4	.0	.0	.0	4.1	.1	2.2	1.1	.0	.0	.0	3.4	.0	2.2	1.1	.0	.0	.0	3.4
3-4	*	1.8	3.3	.3	.0	.0	3.5	*	1.4	1.9	.2	.0	.0	3.6	*	1.4	1.9	.2	.0	.0	3.6
5-6	*	.5	1.6	.3	.0	.0	2.4	.0	.3	1.1	.2	.0	.0	1.6	.0	.3	1.1	.2	.0	.0	1.6
7	*	.1	1.0	.2	*	.0	1.6	.0	.1	.4	.2	.0	.0	.8	.0	.1	.4	.2	.0	.0	.8
8-9	*	.2	.2	.1	.1	*	.2	*	.0	.3	.1	.1	.0	.4	.0	.0	.3	.1	.1	.0	.4
10-11	.0	.0	.1	.1	*	.0	.2	.0	.0	.1	.1	*	.0	.2	.0	.0	.1	.1	*	.0	.2
12	.0	.0	.0	*	*	.0	*	.0	.0	*	*	*	.0	*	.0	.0	*	*	*	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	5.5	7.6	1.4	.1	*	15.1	.3	4.7	5.0	.8	.0	.0	10.8	.3	4.7	5.0	.8	.0	.0	10.8

AREA 0009 ANAMI O SHIMA
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ANNUAL
TABLE 10

PERIOD: (OVER-ALL) 1953-1970

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	SW	34-47	48+	PCT
<1	.2	.5	#	.0	.0	.0	.7	.0	.0	.0	.7
1-2	.1	2.1	1.3	.0	.0	.0	3.5	1.1	.0	.0	2.7
3-4	.1	1.4	2.2	.0	.0	.0	3.5	.4	.0	.0	3.5
5-6	.0	1.3	1.1	.3	.0	.0	1.7	1.3	.0	.0	1.7
7	.0	.1	.5	.4	.0	.0	1.1	.5	.0	.0	.8
8-9	.0	.1	.1	.1	.0	.0	.3	.2	.0	.0	.3
10-11	.0	.0	.1	.1	.0	.0	.1	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
81+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	4.4	5.5	1.2	.0	.0	11.3	5.2	1.1	.0	9.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	NW	34-47	48+	PCT
<1	.1	.5	#	.0	.0	.0	.7	.0	.0	.0	.7
1-2	.1	.7	.5	.0	.0	.0	2.6	.0	.0	.0	2.6
3-4	.0	.2	.8	.0	.0	.0	3.2	.0	.0	.0	3.2
5-6	.0	.1	.4	.1	.0	.0	2.4	.0	.0	.0	2.4
7	.0	.1	.2	.2	.0	.0	2.2	.0	.0	.0	2.2
8-9	.0	.0	.2	.1	.0	.0	.6	.0	.0	.0	.6
10-11	.0	.0	.0	.1	.0	.0	.4	.0	.0	.0	.4
12	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4
17-19	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
81+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.2	2.9	.6	.2	.0	6.1	5.2	.4	.0	11.8

ANNUAL

PERIOD: (OVER-ALL) 1963-1970

AREA 0009 ANAMI U SHIMA
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TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)							TOT OBS
	0-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	2.7	4.2	.2	.0	.0	.0	7.2	
1-2	1.0	15.5	9.2	.0	.0	.0	25.7	
3-4	.3	10.6	18.7	2.0	.0	.0	31.6	
5-6	.1	2.8	11.7	2.5	.1	.0	17.3	
7	*	.6	5.8	3.2	.2	*	9.9	
8-9	.1	.2	2.1	1.8	.2	*	4.3	
10-11	.0	*	.4	1.1	.2	*	1.8	
12	.0	.0	.1	.5	.1	.0	.8	
13-16	.0	*	.2	.6	.2	*	1.0	
17-19	.0	.0	.0	.1	.1	.0	.2	
20-22	.0	.0	.0	.1	.1	.0	.1	
23-25	.0	.0	.0	*	.1	.0	.1	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.2	34.0	48.5	11.8	1.4	*	100.0	
							5998	

PERIOD: (OVER-ALL) 1945-1970

TABLE 19

PERIOD (SEC)	PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)																	TOTAL	MEAN HGT
	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48				
<6	1.8	14.2	18.3	7.1	2.8	1.0	.4	.2	.1	*	*	.0	.0	.0	.0	.0			
6-7	*	1.9	7.6	9.2	4.8	1.8	.6	.4	.3	*	.1	*	*	*	*	*			
8-9	.0	.3	1.5	3.2	3.4	1.8	1.0	.5	.4	.1	.1	.1	.1	.1	.1	.1			
10-11	.0	.2	.4	.7	.9	.9	.6	.3	.3	*	*	.1	*	*	*	*			
12-13	.0	.0	.3	.2	.2	.1	.2	.2	.2	.1	.1	*	*	*	*	*			
>13	.0	.0	.0	.1	.1	.1	.1	.1	.1	.1	*	*	*	*	*	*			
INDET	2.7	1.7	1.8	1.1	.5	.2	.2	.1	.1	*	*	.0	.0	*	*	*			
TOTAL	456	1832	2959	2114	1242	584	308	169	138	27	23	21	13	0	0	0			
PCT	4.5	18.4	30.0	21.5	12.6	6.0	3.1	1.7	1.4	.3	.2	.2	.2	.1	.0	.0			

PERIOD: (PRIMARY) 1935-1970
(OVER-ALL) 1857-1970

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TABLE 20
PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	47	.2
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	183	.8
85/86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	907	3.8
83/84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1797	7.4
81/82	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3313	13.7
79/80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2019	8.4
77/78	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1849	7.7
75/76	.5	.4	.6	3.7	13.8	22.8	1.0	2.0	4.1	17.4	21.4	3.8	2488	10.3
73/74	3.3	1.7	2.0	10.2	27.5	22.8	1.0	1.0	2.0	12.4	27.1	12.7	2561	10.6
71/72	8.5	4.2	5.9	23.9	24.9	7.9	.3	.4	.2	4.1	19.9	23.8	2658	11.0
69/70	20.3	12.4	17.3	24.6	14.2	2.6	.2	.3	.1	1.9	11.4	23.5	2664	10.2
67/68	24.3	22.8	24.8	17.8	7.8	.9	.1	.0	.2	.3	4.6	17.4	1869	6.9
65/66	17.6	21.0	19.8	10.3	2.5	.1	.0	.0	.1	.3	1.9	8.8	1064	4.4
63/64	11.1	17.9	15.2	5.0	1.2	.2	.0	.0	.0	.0	.3	4.4	873	3.6
61/62	10.3	15.1	12.1	2.6	.6	.0	.0	.0	.0	.0	.2	3.3	138	.6
59/60	1.5	2.4	2.2	.3	.0	.0	.0	.0	.0	.0	.0	.4	51	.2
57/58	.5	1.0	.7	.1	.0	.0	.0	.0	.0	.0	.0	.1	48	.2
55/56	.8	.6	.8	.1	.0	.0	.0	.0	.0	.0	.0	.0	11	.0
53/54	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	.0
51/52	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.0
49/50	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0
47/48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
45/46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
43/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
25/26	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	1908	1774	2237	2695	2171	1933	1953	1953	1943	2199	1778	1623	24167	100.0
MEAN	68.9	67.7	68.4	71.5	74.2	77.7	82.4	82.8	82.1	78.9	75.1	71.6	75.1	

PERIOD: (PRIMARY) 1935-1970
(OVER-ALL) 1857-1970

AREA 0009 ANAMI O SHIMA
27.8N. 129.4E

TABLE 21

	MO	PRESSURE (MB)										TOTAL DBS
		AVERAGE BY HOUR (GMT)										
		0000	0300	0600	0900	1200	1500	1800	2100	MEAN		
	JAN	1021	1020	1019	1019	1020	1019	1020	1019	1020	1020	1824
	FEB	1020	1019	1018	1018	1020	1018	1019	1018	1019	1019	1714
	MAR	1018	1016	1016	1015	1018	1016	1017	1015	1016	1016	2096
	APR	1016	1015	1015	1013	1015	1014	1015	1014	1015	1015	2636
	MAY	1012	1012	1011	1011	1011	1012	1011	1012	1012	1012	2142
	JUN	1010	1009	1009	1008	1009	1009	1008	1008	1009	1009	1889
	JUL	1010	1009	1009	1008	1009	1009	1009	1008	1009	1009	1910
	AUG	1008	1008	1007	1006	1007	1007	1007	1007	1007	1007	1395
	SEP	1011	1011	1010	1010	1011	1011	1010	1009	1010	1010	1887
	OCT	1015	1014	1014	1013	1015	1014	1014	1013	1013	1013	2122
	NOV	1019	1018	1017	1017	1018	1018	1018	1017	1018	1018	1745
	DEC	1020	1019	1019	1019	1020	1019	1020	1019	1019	1019	1561
	ANN	1015	1014	1014	1013	1014	1014	1014	1013	1014	1014	23421
	DBS	3056	2920	2956	2620	3281	3256	3010	2322			

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	1001	1007	1011	1016	1020	1023	1027	1030	1036
FEB	999	1005	1010	1016	1019	1022	1026	1027	1030
MAR	1000	1004	1008	1013	1017	1020	1024	1027	1032
APR	997	1002	1007	1012	1015	1018	1021	1024	1029
MAY	992	999	1004	1009	1012	1014	1018	1020	1022
JUN	991	997	1001	1006	1009	1011	1015	1017	1020
JUL	986	995	1000	1006	1010	1012	1015	1017	1019
AUG	974	989	996	1004	1008	1011	1014	1016	1020
SEP	982	997	1002	1008	1011	1014	1016	1018	1021
OCT	989	995	1006	1012	1015	1017	1020	1023	1026
NOV	1000	1006	1011	1015	1018	1020	1024	1026	1029
DEC	1002	1008	1012	1017	1020	1022	1025	1028	1031

USCOM-HQMA-ASHVILLE, NC--175

VOLUME	AREA	AREA NAME	CENTRAL LOCATION	VOLUME	AREA	AREA NAME	CENTRAL LOCATION
1	1	KUISHIRO	42.6°N 145.8°E	7	19	NIIGATA	38.0°N 137.5°E
	2	TOMAKCMAI	41.8°N 142.4°E		20	AKITA	40.0°N 138.0°E
	3	SENDAI	39.5°N 142.7°E		21	HAKODATE	42.6°N 139.4°E
2	4	TOKYO	35.5°N 140.9°E	8	22	CENTRAL	
	5	HACHIJO				SEA OF	
	6	JIMA	32.0°N 140.5°E		23	JAPAN	39.9°N 133.7°E
3		NAGOYA	33.8°N 137.4°E			SOUTHERN	
	7	NOBEOKA	32.3°N 133.2°E			SEA OF	
	8	YAKU SHIMA	30.0°N 130.0°E		24	JAPAN	38.0°N 133.5°E
4	9	AMAMI O		9		WONSAN	40.0°N 129.8°E
		SHIMA	28.0°N 129.5°E		25	KANGNUNG	38.1°N 129.8°E
	10	OKINAWA	26.0°N 127.5°E		26	PUSAN	35.7°N 130.0°E
	11	SAKI SHIMA	25.0°N 124.5°E	10	27	CHEJU	34.1°N 127.4°E
		ISLANDS				I ISLAND	
	12	SOUTHERN			28	SOUTHERN	
5		EAST CHINA	27.7°N 125.8°E			YELLOW SEA	34.0°N 124.5°E
	13	CENTRAL			29	INCH'ON	36.5°N 125.3°E
		EAST CHINA			30	KOREA BAY	38.9°N 123.6°E
		SEA		11	31	BONIN	
	14	NORTHERN				I ISLANDS	27.5°N 142.5°E
		EAST CHINA	30.0°N 126.0°E		32	VOLCANO	
6		SEA				I ISLANDS	24.5°N 141.5°E
	15	NAGASAKI	32.0°N 129.4°E		33	MARCUS	
						I ISLAND	24.0°N 153.5°E
	16	SASEBO	33.9°N 129.8°E				
	17	INLAND SEA	34.2°N 133.2°E				
	18	MATSUE	36.1°N 133.3°E				